TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
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Tel: (303)736-0100

TestAmerica Job ID: 280-105586-1
TestAmerica Sample Delivery Group: DN0308
Client Project/Site: W18-001

For:
CH2M Hill Plateau Remediation Company
PO BOX 1600, MS H8-41
Richland, Washington 99352

Attn: Mr. Scot Fitzgerald

Darlene Bandy

Authorized for release by:
2/27/2018 9:11:08 PM

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LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 280-105586-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: CH2M Hill Plateau Remediation Company

Project: W18-001

Report Number: 280-105586-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

The Chain of Custody requests “6020_METALS_ICPMS: GW 01” analysis. Service List “6020_METALS_ICPMS: GW 01” includes Thorium, and while TestAmerica Denver holds Washington State (WDOE) accreditation for method 6020B, Thorium is not on the accreditation certificate at this time. Please note that Thorium is on TestAmerica Denver's primary ORELAP certification, and TestAmerica Denver is pursuing full WDOE accreditation for this element. As instructed by the client, the laboratory proceeded with the requested Thorium analyses by method 6020B.

The laboratory is not able to achieve project specified Highest Allowable Practical Quantitation Limits (HAPQL limits) for several analytes. These include: Arsenic 6010D, Boron 6010D, Beryllium 6020B, Silver 6020B, Tin 6020B, Ethyl Cyanide 8260B, 4,6-Dintro-2-methyl phenol 8270D, Pentachlorophenol 8270D, Total Organic Halides 9020B. All analytes met statistical limits, unless otherwise detailed in the individual sections below. As instructed by the client, the data is reported.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 1/18/2018 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 7 coolers at receipt time were 0.7º C, 1.0º C, 1.2º C, 1.4º C, 1.8º C, 1.8º C and 2.4º C.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples B3FXP0 (280-105586-19), B3FXL4 (280-105586-24) and B3FYH4 (280-105586-25) were analyzed for semivolatile organic compounds (GC-MS) in accordance with SW-846 8270D. The samples were prepared on 01/22/2018 and analyzed on 02/01/2018 and 02/02/2018.

2,4-Dimethylphenol failed the recovery criteria low for LCS 280-402273/2-A at 68%; project limits 70-130%, TADN standard limits 46-100%. This is not indicative of a systematic control problem because this was a random marginal exceedance. The data have been qualified and reported; all associated results have been flagged "o".

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ORGANOCHLORINE PESTICIDES (GC)

Samples B3FXM0 (280-105586-11), B3FXM4 (280-105586-15), B3FXM3 (280-105586-16), B3FXD2 (280-105586-26) and B3FXD3 (280-105586-29) were analyzed for Organochlorine Pesticides (GC) in accordance with SW 846 8081B. The samples were prepared on 01/20/2018 and analyzed on 02/02/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POLYCHLORINATED BIPHENYLS (PCBS)

Job ID: 280-105586-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

Samples B3FXD2 (280-105586-26) and B3FXD3 (280-105586-29) were analyzed for polychlorinated biphenyls (PCBs) in accordance with SW 846 8082A. The samples were prepared on 01/20/2018 and analyzed on 02/01/2018.

The following samples underwent a sulfuric acid clean-up, via EPA Method 3665A, to reduce matrix interferences: B3FXD2 (280-105586-26), B3FXD2 (280-105586-26[MS]), B3FXD2 (280-105586-26[MSD]), B3FXD3 (280-105586-29), (LCS 280-402237/3-A) and (MB 280-402237/1-A)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CHLORINATED HERBICIDES

Samples B3FXM0 (280-105586-11), B3FXN9 (280-105586-14), B3FXP0 (280-105586-19), B3FXD2 (280-105586-26) and B3FXD3 (280-105586-29) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 01/19/2018 and analyzed on 02/15/2018.

DCAA failed the surrogate recovery criteria low for B3FXD3 (280-105586-29). This recovered at 0.1% on t he primary column and at 6% on the confirmation column. This surrogate result has been flagged "X". As instructed by the client, the data have been qualified and reported (SIR18-0502).

All analytes failed the recovery criteria low for LCS 280-402202/2-A for the project limits of 70-130%, but within TADN's standard recovery limits. All associated results have been flagged "o". Dinoseb failed the recovery criteria low for LCSD 280-402202/10-A for the project limits of 70-130%, but within TADN's standard recovery limits. All analytes exceeded the RPD limits, and all associated results have been flagged "y". It was noted that the MS/MSD % recoveries and RPD were all within control limits. As instructed by the client, the data have been qualified and reported (SIR18-0501).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICP)

Samples B3FRN7 (280-105586-2), B3FVC2 (280-105586-3), B3FV96 (280-105586-6), B3FTH2 (280-105586-10), B3FV72 (280-105586-13), B3FR99 (280-105586-17), B3FTF6 (280-105586-20), B3FTX6 (280-105586-23) and B3FV61 (280-105586-27) were analyzed for Dissolved Metals (ICP) in accordance with EPA SW846 6010D. The samples were prepared on 01/23/2018 and 02/20/2018 and analyzed on 01/23/2018, 01/24/2018 and 02/21/2018.

Barium was detected in method blank MB 280-402195/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL and the method blank concentration was greater than 5% of the sample concentration, the result has been flagged. The following samples are associated: B3FRN7 (280-105586-2), B3FVC2 (280-105586-3), B3FV96 (280-105586-6), B3FTH2 (280-105586-10), B3FV72 (280-105586-13), B3FR99 (280-105586-17), B3FTF6 (280-105586-20) and B3FV61 (280-105586-27).

Calcium, Iron, Magnesium and Sodium were detected in method blank MB 280-405467/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL and the method blank concentration was greater than 5% of the sample concentration, the result has been flagged. The following sample is associated: B3FTX6 (280-105586-23).

Boron was detected in MB 280-405467/1-A at a level that was above the method detection limit, below the reporting limit, but greater than half the reporting limit. The associated sample concentration was less than half the RL for the affected element; therefore, corrective action is not needed. The following sample is associated: B3FTX6 (280-105586-23).

Insufficient volume was available for an MS/MSD for prep batch 280-405467. A duplicate LCS (LCSD) was analyzed. The following sample is associated: B3FTX6 (280-105586-23).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICP)

Samples B3FRN5 (280-105586-1), B3FVC0 (280-105586-4), B3FV92 (280-105586-5), B3FXT5 (280-105586-9), B3FXM0 (280-105586-11), B3FYF7 (280-105586-18), B3FXP0 (280-105586-19), B3FYH3 (280-105586-22), B3FTX6 (280-105586-23) and B3FV55

Job ID: 280-105586-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

(280-105586-28) were analyzed for Total Metals (ICP) in accordance with EPA SW846 6010D. The samples were prepared on 01/23/2018 and analyzed on 01/23/2018 and 01/24/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICP-MS)

Samples B3FTH2 (280-105586-10), B3FV72 (280-105586-13), B3FR99 (280-105586-17), B3FTF6 (280-105586-20), B3FTX6 (280-105586-23) and B3FV61 (280-105586-27) were analyzed for 6020B ICP-MS in accordance with SW846 6020B. The samples were prepared on 01/23/2018 and 02/20/2018 and analyzed on 01/25/2018, 02/21/2018 and 02/23/2018.

The Chain of Custody requests “6020_METALS_ICPMS: GW 01” analysis. Service List “6020_METALS_ICPMS: GW 01” includes Thorium, and while TestAmerica Denver holds Washington State (WDOE) accreditation for method 6020B, Thorium is not on the accreditation certificate at this time. Please note that Thorium is on TestAmerica Denver's primary ORELAP certification, and TestAmerica Denver is pursuing full WDOE accreditation for this element. As instructed by the client, the laboratory proceeded with the requested Thorium analyses by method 6020B.

The accuracy and precision of Strontium in the MS/MSD performed on sample B3FV72 (280-105586-13)in prep batch 280-402198 could not be reliably calculated due to the sample concentration reading greater than four times the spike amount. Control limits are not applicable and the MS/MSD results have been flagged “X”.

Insufficient volume was available for an MS/MSD for prep batch 280-405465. A duplicate LCS (LCSD) was analyzed. The following sample is associated: B3FTX6 (280-105586-23).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICP/MS)

Samples B3FXT5 (280-105586-9), B3FXM0 (280-105586-11), B3FYF7 (280-105586-18), B3FXP0 (280-105586-19), B3FYH3 (280-105586-22), B3FTX6 (280-105586-23) and B3FV55 (280-105586-28) were analyzed for Total Metals (ICP/MS) in accordance with SW846 6020B. The samples were prepared on 01/23/2018 and analyzed on 01/25/2018.

The Chain of Custody requests “6020_METALS_ICPMS: GW 01” analysis. Service List “6020_METALS_ICPMS: GW 01” includes Thorium, and while TestAmerica Denver holds Washington State (WDOE) accreditation for method 6020B, Thorium is not on the accreditation certificate at this time. Please note that Thorium is on TestAmerica Denver's primary ORELAP certification, and TestAmerica Denver is pursuing full WDOE accreditation for this element. As instructed by the client, the laboratory proceeded with the requested Thorium analyses by method 6020B.

The accuracy and precision of Strontium in the MS/MSD performed on sample B3FXT5 (280-105586-9) in prep batch 280-402194 could not be reliably calculated due to the sample concentration reading greater than four times the spike amount. Control limits are not applicable and the MS/MSD results have been flagged “X”.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED MERCURY

Samples B3FTH2 (280-105586-10), B3FV72 (280-105586-13), B3FTX6 (280-105586-23) and B3FV61 (280-105586-27) were analyzed for dissolved mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 01/25/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Samples B3FXT5 (280-105586-9), B3FXM0 (280-105586-11), B3FXP0 (280-105586-19), B3FYH3 (280-105586-22) and B3FV55 (280-105586-28) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 01/25/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 280-105586-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

ALKALINITY

Samples B3FRN5 (280-105586-1), B3FVC0 (280-105586-4), B3FY47 (280-105586-7), B3FXL9 (280-105586-8), B3FYF9 (280-105586-21), B3FYH3 (280-105586-22), B3FXL4 (280-105586-24) and B3FV55 (280-105586-28) were analyzed for Alkalinity in accordance with SM20 2320B. The samples were analyzed on 01/22/2018.

Alkalinity as CaCO3 and Bicarbonate Alkalinity as CaCO3 were detected in method blank MB 280-402461/29 at levels that were above the method detection limit but below the reporting limit. Alkalinity as CaCO3, Bicarbonate Alkalinity as CaCO3 and Carbonate Alkalinity as CaCO3 were detected in method blank MB 280-402461/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL and the method blank concentration was greater than 5% of the sample concentration, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL ORGANIC HALIDES

Samples B3FRR6 (280-105586-30), B3FV57 (280-105586-31), B3FRR4 (280-105586-32), B3FRR5 (280-105586-33), B3FR38 (280-105586-34), B3FVD6 (280-105586-35), B3FVD7 (280-105586-36) and B3FVD8 (280-105586-37) were analyzed for total organic halides in accordance with EPA SW846 Method 9020B. The samples were analyzed on 01/30/2018 and 01/31/2018.

Total Organic Halogens - Dup failed the recovery criteria high for the MS of sample B3FVD7 (280-105586-36) in batch 280-403516. all associated sample results have been flagged "N". The acceptable LCS data demonstrates that the analytical system was operating within control; therefore, corrective action is not needed. The following samples are associated: B3FVD7 (280-105586-36) and B3FVD8 (280-105586-37).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL ORGANIC CARBON

Samples B3FRR6 (280-105586-30), B3FV57 (280-105586-31), B3FRR4 (280-105586-32), B3FRR5 (280-105586-33), B3FR38 (280-105586-34), B3FVD6 (280-105586-35), B3FVD7 (280-105586-36) and B3FVD8 (280-105586-37) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 01/25/2018.

Total Organic Carbon - Average was detected in method blank MB 280-402745/35 at a level that was above the method detection limit but below half the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL and the method blank concentration was greater than 5% of the sample concentration, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

We certify that this data package is in compliance with the SOW, both technically and for completeness, including a full description of, explanation of, and corrective actions for, any and all deviations, from either the analyses requested or the case narrative requested. Release of the data contained in this hard copy data package has been authorized by the Laboratory Analytical Manager or designee and the laboratory's client services representative as verified by their signature on this report.

Reviewed and approved:

Darlene Bandy
Project Manager

SAMPLE ISSUE RESOLUTION (SIR) REPORT

SIR Number: SIR18-0501
Rev. Number: 0
Date Initiated: 02/21/2018

SAMPLE EVENT INFORMATION

SAF NUM(S): W18-001

LABORATORY: TADN

SAMPLING INFORMATION

NUMBER OF SAMPLES: 5

SAMPLE NUMBERS: B3FXD2, B3FXD3, B3FXM0, B3FXN9, B3FXP0

SAMPLE MATRIX: WATER

SDG NUM(S): DN0308

ISSUE BACKGROUND

CLASS: Laboratory Issue

TYPE: Quality Control Failure

DESCRIPTION: Method 8151A: The LCS associated with prep batch 280-402202 exhibited % recoveries below the project limits, but within TADN standard limits; recoveries are listed below. The LCSD exhibited a 54%% recovery for Dinoseb on the primary column and a 55% recovery for Dinoseb on the confirmation column. This is within TADN standard control limits of 25-132%, but below the project limits. The samples were non-detect for all analytes on both columns; all analytes are reported from the primary column.
LCS: (Project-Specific limits are 70-130%)
2,4,5-T: 59% primary column, 62% confirmation column; TADN limits 45-135%
2,4-D: 67% primary column, 60% confirmation column; TADN limits 46-126%
2,4-DB: 51% primary column, 55% confirmation column; TADN limits 18-135%
Dalapon: 63% primary column, 68% confirmation column; TADN limits 52-119%
Dicamba: 60% primary column, 60% confirmation column; TADN limits 50-128%
Dichlorprop: 64% primary column, 64% confirmation column; TADN limits44-121%
Dinoseb: 42% primary column, 33% confirmation column; TADN limits 25-132%
MCPA: 57% primary column, 64% confirmation column; TADN limits 43-118%
MCPP: 67% primary column, 58% confirmation column; TADN limits 45-121%
Silvex (2,4,5-TP): 63% primary column, 62% confirmation column; TADN limits 48-127%
The LCS/LCSD RPD was outside control limits for all analytes. It was noted that the LCSD recovered within project-specific control limits for all analytes except Dinoseb, which recovered within TADN standard limits. It is noted that the MS/MSD % recoveries and RPD are within control limits.

RESOLUTION

PROPOSED RESOLUTION: TADN proposes to either report this data with appropriate o flags for the LCS/LCSD failures and y flags for the RPD failures and narrate the anomalies, reject the analyses, or re-extract out of hold.

FINAL RESOLUTION: Accept first proposal - report this data with appropriate o flags for the LCS/LCSD failures and y flags for the RPD failures and narrate the anomalies.

SUBMITTED BY:

BANDY, DF 02/21/2018

ACCEPTED BY:

FITZGERALD, SL 02/21/2018

SAMPLE ISSUE RESOLUTION (SIR) REPORT

SIR Number: SIR18-0502
Rev. Number: 0
Date Initiated: 02/21/2018

SAMPLE EVENT INFORMATION

SAF NUM(S): W18-001

LABORATORY: TADN

SAMPLING INFORMATION

NUMBER OF SAMPLES: 1

SAMPLE NUMBERS: B3FXD3

SAMPLE MATRIX: WATER

SDG NUM(S): DN0308

ISSUE BACKGROUND

CLASS: Laboratory Issue

TYPE: Quality Control Failure

DESCRIPTION: Method 8151A: The DCAA surrogate recovered below control limits for sample B3FXD3. This surrogate had an 0.1% recovery on the primary column, and a 6 % recovery on t he confirmation column. Matrix interference was not obvious. This sample was non-detect for all analytes.

RESOLUTION

PROPOSED RESOLUTION: TADN proposes to either report this data with appropriate X flag for the surrogate failure, reject the analysis, or re-extract out of hold.

FINAL RESOLUTION: Accept first proposal - report this data with appropriate X flag.

SUBMITTED BY:

BANDY, DF 02/21/2018

ACCEPTED BY:

FITZGERALD, SL 02/21/2018

SAMPLE ISSUE RESOLUTION (SIR) REPORT

SIR Number: SIR18-0504
Rev. Number: 0
Date Initiated: 02/21/2018

SAMPLE EVENT INFORMATION

SAF NUM(S): W18-001

LABORATORY: TADN

SAMPLING INFORMATION

NUMBER OF SAMPLES: 3

SAMPLE NUMBERS: B3FXL4, B3FXP0, B3FYH4

SAMPLE MATRIX: WATER

SDG NUM(S): DN0308

ISSUE BACKGROUND

CLASS: Laboratory Issue

TYPE: Quality Control Failure

DESCRIPTION: Method 8270D: The LCS recovery for batch 402273 was outside project control limits (but within TADN standard control limits) for 2,4-Dimethylphenol: % recovery was 68%; TADN limits 40-120%; project limits 70-130%. It was noted that this is not indicative of a systematic control problem because this is a random marginal exceedance.

RESOLUTION

PROPOSED RESOLUTION: TADN proposes to either report the in hold data with flags and narrate, re-extract the samples outside of hold or cancel the analysis.

FINAL RESOLUTION: Accept first proposal - report the in hold data with flags and narrate.

SUBMITTED BY:

BANDY, DF 02/21/2018

ACCEPTED BY:

FITZGERALD, SL 02/21/2018

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 280-105586-1
SDG Number: DN0308

Login Number: 105586
List Number: 1
Creator: True, Joshua A

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	70 CPM
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.7, 1.8, 1.8, 2.4, 1.4, 1.2, 1.0 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W18-001-109 Page 1 of 1

Collector:	Larry Rosane /CHPRC PNC308	Contact/Requester:	Karen Waters-Husted	Telephone No.:	509-376-4650
SAF No.:	W18-001	Sampling Origin:	Hanford Site	Purchase Order/Charge Code:	300071
Project Title:	RCRA, JANUARY 2018	Logbook No.:	HNF-N-506 98/27	Ice Chest No.:	GWS-660
Shipped To (Lab):	TestAmerica Denver	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.:	771235889351
Protocol	RCRA	Priority:	30 Days	Offsite Property No.:	89607

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3FRN5	N	W	1-16-18	1229	1x500-mL G/P	6010_METALS_ICP: COMMON	6 Months	HNO3 to pH <2
B3FRN5	N	W	↓	↓	1x250-mL G/P	2320_ALKALINITY: COMMON	14 Days	Cool <=6C
B3FRN7	Y	W	1-16-18	1229	1x500-mL G/P	6010_METALS_ICP: COMMON	6 Months	HNO3 to pH <2

280-105586 Chain of Custody

0.6, 1.7, 1.7, 2.3, 1.3, 1.1, 0.9 IRH8 +0.1 Transfer RP 1-18-18

Relinquished By: Larry Rosane /CHPRC — Larry Rosane — JAN 16 2018 1305 (Print First and Last Name / Signature / Date/Time)		Received By: SSU-1 — JAN 16 2018 1305 (Print First and Last Name / Signature / Date/Time)	
Relinquished By: SSU-1 — JAN 17 2018 0700 (Print First and Last Name / Signature / Date/Time)		Received By: Lesly Wall /CHPRC — Lesly Wall — JAN 17 2018 0700 (Print First and Last Name / Signature / Date/Time)	
Relinquished By: Lesly Wall /CHPRC — Lesly Wall — JAN 17 2018 1400 (Print First and Last Name / Signature / Date/Time)		Received By: FEDEX (Print First and Last Name / Signature / Date/Time)	
Relinquished By: FedEx (Print First and Last Name / Signature / Date/Time)		Received By: Josh True — 1-18-18 0930 (Print First and Last Name / Signature / Date/Time)	

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 11/21/2017 FSR ID = FSR53993 A-6004-842 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C.# W18-001-115 Page 1 of 1

Collector:	Larry Rosane /CHPRC DN038	Contact/Requester:	Karen Waters-Husted	Telephone No.:	509-376-4650
SAF No.:	W18-001	Sampling Origin:	Hanford Site	Purchase Order/Charge Code:	300071
Project Title:	RCRA, JANUARY 2018	Logbook No.:	HNF-N-506 98/27	Ice Chest No.:	6405-1060
Shipped To (Lab):	TestAmerica Denver	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.:	7712 3588 9351
Protocol	RCRA	Priority:	30 Days	Offsite Property No.:	89107

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3FVC2	Y	W	1-16-18	1153	1x500-mL G/P	6010_METALS_ICP: COMMON	6 Months	HNO3 to pH <2
B3FVC0	N	W	↓	↓	1x500-mL G/P	6010_METALS_ICP: COMMON	6 Months	HNO3 to pH <2
B3FVC0	N	W	1-16-18	1153	1x250-mL G/P	2320_ALKALINITY: COMMON	14 Days	Cool <=6C

Relinquished By	Print First and Last Name	Signature	Date/Time	Received By	Print First and Last Name	Signature	Date/Time
Larry Rosane /CHPRC	Larry Rosane	Larry Rosane	JAN 16 2018 1305	SSU-1			JAN 16 2018 1305
SSU-1			JAN 17 2018 0700	Lesly Wall /CHPRC	Lesly Wall	Lesly Wall	JAN 17 2018 0700
Lesly Wall /CHPRC	Lesly Wall	Lesly Wall	JAN 17 2018 1400	FEDEX			
FedEx				Josh Tree	Josh Tree	Josh Tree	1-18-18 0930

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 11/21/2017 FSR ID = FSR53962 A-6004-842 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W18-001-005 Page 1 of 1

Collector:	Larry Rosane /CHPRC DW0308	Contact/Requester:	Karen Waters-Husted	Telephone No.:	509-376-4650
SAF No.:	W18-001	Sampling Origin:	Hanford Site	Purchase Order/Charge Code:	300071
Project Title:	RCRA, JANUARY 2018	Logbook No.:	HNF-N-506 98/27	Ice Chest No.:	GCOS-660
Shipped To (Lab):	TestAmerica Denver	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.:	7712 3588 9351
Protocol	RCRA	Priority:	30 Days	Offsite Property No.:	89607

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3FV92	N	W	1-16-18	1124	1x500-mL G/P	6010_METALS_ICP: COMMON	6 Months	HNO3 to pH <2
B3FV96	Y	W	1-16-18	1124	1x500-mL G/P	6010_METALS_ICP: COMMON	6 Months	HNO3 to pH <2

Relinquished By:	Signature	Date/Time	Received By:	Signature	Date/Time
Larry Rosane /CHPRC	Larry Rosane	JAN 16 2018 1305	SSU-1		JAN 16 2018 1305
SSU-1		JAN 17 2018 0700	Lesly Wall /CHPRC	Lesly Wall	JAN 17 2018 0700
Lesly Wall /CHPRC	Lesly Wall	JAN 17 2018 1400	FEDEX		
FedEx			Josh True		1-18-18 0930

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 12/6/2017 FSR ID = FSR54485 A-6004-842 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W18-001-370 Page 1 of 1

Collector:	Larry Rosane /CHPRC DWG308	Contact/Requester:	Karen Waters-Husted	Telephone No.:	509-376-4650
SAF No.:	W18-001	Sampling Origin:	Hanford Site	Purchase Order/Charge Code:	300071
Project Title:	RCRA, JANUARY 2018	Logbook No.:	HNF-N-506 98/27	Ice Chest No.:	GWS-6600
Shipped To (Lab):	TestAmerica Denver	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.:	771235889351
Protocol	RCRA	Priority:	30 Days	Offsite Property No.:	89607

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3FY47	N	W	1-16-18	0949	1x250-mL G/P	2320_ALKALINITY: COMMON	14 Days	Cool <=6C

Relinquished By:	Received By:
Larry Rosane /CHPRC — Larry Rosane — JAN 16 2018 1305 (Print First and Last Name / Signature / Date/Time)	SSU-1 — JAN 16 2018 1305 (Print First and Last Name / Signature / Date/Time)
SSU-1 — JAN 17 2018 0700 (Print First and Last Name / Signature / Date/Time)	Lesly Wall /CHPRC — Lesly Wall — JAN 17 2018 0700 (Print First and Last Name / Signature / Date/Time)
Lesly Wall /CHPRC — Lesly Wall — JAN 17 2018 1400 (Print First and Last Name / Signature / Date/Time)	FEDEX (Print First and Last Name / Signature / Date/Time)
FedEx (Print First and Last Name / Signature / Date/Time)	Josh True — 1-18-18 0930 (Print First and Last Name / Signature / Date/Time)

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 11/21/2017 FSR ID = FSR53994 A-6004-842 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W18-001-327 Page 1 of 1

Collector:	IVAN SCHAEFFER CHPRC DVR0308	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	W18-001	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	300071
Project Title:	RCRA, JANUARY 2018	**Logbook No.:**	HNF-N-506-94181	**Ice Chest No.:**	605-660
Shipped To (Lab):	TestAmerica Denver	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.:**	7712 3588 9351
Protocol	RCRA	**Priority:**	30 Days	**Offsite Property No.:**	89967

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3FXL9	N	W	1-16-18	1201	1x250-mL G/P	2320_ALKALINITY: GW 01	14 Days	Cool <=6C

Relinquished By	Print First and Last Name	Signature	Date/Time	Received By	Print First and Last Name	Signature	Date/Time
IVAN SCHAEFFER CHPRC			JAN 16 2018 1345	SSU-1			JAN 16 2018 1345
SSU-1			JAN 17 2018 0700	Lesly Wall /CHPRC			JAN 17 2018 0700
Lesly Wall /CHPRC			JAN 17 2018 1400	FEDEX			
FedEx				Josh True			1-18-18-0930

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure; used in process):	Disposed By:	Date/Time:

Printed On 11/29/2017 FSR ID = FSR54157 A-6004-842 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C.# W18-001-345 Page 1 of 1

Collector:	IVAN SCHAEFFER CHPRC PN0308	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	W18-001	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	300071
Project Title:	RCRA, JANUARY 2018	**Logbook No.:**	HNF-N-506-96181	**Ice Chest No.:**	605-660
Shipped To (Lab):	TestAmerica Denver	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.:**	7712 35889351
Protocol	RCRA	**Priority:**	30 Days	**Offsite Property No.:**	8967

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3FXT5	N	W	1-16-18	1253	1x500-mL G/P	7470_MERCURY_CV: COMMON (AQUEOUS); 6020_METALS_ICPMS: GW 01; 6010_METALS_ICP: GW 04	28 Days	HNO3 to pH <2
B3FTH2	Y	W	1-16-18	1253	1x500-mL G/P	7470_MERCURY_CV: COMMON (AQUEOUS); 6020_METALS_ICPMS: GW 01; 6010_METALS_ICP: GW 04	28 Days	HNO3 to pH <2

Relinquished By:	Received By:
IVAN SCHAEFFER CHPRC — Signature — JAN 16 2018 1345	SSU-1 — Signature — JAN 16 2018 1345
SSU-1 — Signature — JAN 17 2018 0700	Lesly Wall /CHPRC — Signature — JAN 17 2018 0700
Lesly Wall /CHPRC — Signature — JAN 17 2018 1400	FEDEX — Signature —
FedEx — Signature —	Josh Tree — Signature — 1-18-18 0930

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 11/29/2017 FSR ID = FSR54161 A-6004-842 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST 64165	C.O.C.# W18-001-329 Page 1 of 1

Collector: Juan Aguilar /CHPRC DAV0308	**Contact/Requester:** Karen Waters-Husted	**Telephone No.:** 509-376-4650
SAF No.: W18-001	**Sampling Origin:** Hanford Site	**Purchase Order/Charge Code:** 300071
Project Title: RCRA, JANUARY 2018	**Logbook No.:** HNF-N-506-9618	**Ice Chest No.:** GWS-394
Shipped To (Lab): TestAmerica Denver	**Method of Shipment** Commercial Carrier	**Bill of Lading/Air Bill No.:** 7712299961990
Protocol RCRA	**Priority:** 30 Days	**Offsite Property No.:** 8965

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3FXM0	N	W	1-16-18	0848	1x500-mL G/P	7470_MERCURY_CV: COMMON (AQUEOUS); 6020_METALS_ICPMS: GW 01; 6010_METALS_ICP: GW 04	28 Days	HNO3 to pH <2
B3FXM0	N	W	↓	↓	4x1-L aG	8151_HERBICIDE_GC: COMMON	7/40 Days	Cool <=6C
B3FXM0	N	W	↓	↓	4x1-L aG	8081_PEST_GC: COMMON	7/40 Days	Cool <=6C
B3FV72	Y	W	1-16-18	0848	1x500-mL G/P	7470_MERCURY_CV: COMMON (AQUEOUS); 6020_METALS_ICPMS: GW 01; 6010_METALS_ICP: GW 04	28 Days	HNO3 to pH <2

Relinquished By: Juan Aguilar /CHPRC	JAN 16 2018	0848	Received By: Troy Bacon CHPRC	Troy L. Bacon JAN 16 2018	0948
Print First and Last Name	Signature	Date/Time	Print First and Last Name	Signature	Date/Time
Relinquished By: Troy Bacon CHPRC	Troy L. Bacon JAN 16 2018	1400	Received By: FEDEX		
Print First and Last Name	Signature	Date/Time	Print First and Last Name	Signature	Date/Time
Relinquished By: FedEx			Received By: Josh Tree		1-18-18 0930
Print First and Last Name	Signature	Date/Time	Print First and Last Name	Signature	Date/Time
Relinquished By:			Received By:		
Print First and Last Name	Signature	Date/Time	Print First and Last Name	Signature	Date/Time

Matrix *
S = Soil, DS = Drum Solids, SE = Sediment, DL = Drum Liquid, SO = Solid, T = Tissue, SL = Sludge, WI = Wipe, W = Water, L = Liquid, O = Oil, V = Vegetation, A = Air, X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 12/5/2017 FSR ID = FSR54158 A-6004-842 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W18-001-334 Page 1 of 1

Collector: IVAN SCHAEFFER CHPRC DN0308	**Contact/Requester:** Karen Waters-Husted	**Telephone No.:** 509-376-4650
SAF No.: W18-001	**Sampling Origin:** Hanford Site	**Purchase Order/Charge Code:** 300071
Project Title: RCRA, JANUARY 2018	**Logbook No.:** HNF-N-506-96181	**Ice Chest No.:** GWS-350
Shipped To (Lab): TestAmerica Denver	**Method of Shipment** Commercial Carrier	**Bill of Lading/Air Bill No.:** 7712 2999 5229
Protocol RCRA	**Priority:** 30 Days	**Offsite Property No.:** 8965

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3FXN9	N	W	1-16-18	1015	4x1-L aG	8151_HERBICIDE_GC: COMMON	7/40 Days	Cool <=6C

Relinquished By	Print First and Last Name	Signature	Date/Time	Received By	Print First and Last Name	Signature	Date/Time
IVAN SCHAEFFER CHPRC			JAN 16 2018 1047	Troy Bacon CHPRC		Troy L. Bacon	JAN 16 2018 1047
Troy Bacon CHPRC		Troy L. Bacon	JAN 16 2018 1400	FEDEX			
		FedEx					14 FEB 2018 0930

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 12/5/2017 FSR ID = FSR54254 A-6004-842 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W18-001-331 Page 1 of 1

Collector: Dan Woehle CHPRC DWC308	**Contact/Requester:** Karen Waters-Husted	**Telephone No.:** 509-376-4650
SAF No.: W18-001	**Sampling Origin:** Hanford Site	**Purchase Order/Charge Code:** 300071
Project Title: RCRA, JANUARY 2018	**Logbook No.:** HNF-N-506 -95/79	**Ice Chest No.:** GWS-350
Shipped To (Lab): TestAmerica Denver	**Method of Shipment** Commercial Carrier	**Bill of Lading/Air Bill No.:** 7712 2499 5229
Protocol RCRA	**Priority:** 30 Days	**Offsite Property No.:** 8965

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3FXM4	N		JAN 16 2018	0730	4x1-L aG	8081_PEST_GC: COMMON; 8081_PEST_GC: CH 01	7/40 Days	Cool <=6C

Relinquished By:	Received By:
Dan Woehle CHPRC — Print First and Last Name; Signature; JAN 16 2018 1040 — Date/Time	Troy Bacon CHPRC — Print First and Last Name; Troy L. Bacon — Signature; JAN 16 2018 1040 — Date/Time
Troy Bacon CHPRC — Print First and Last Name; Troy L. Bacon — Signature; JAN 16 2018 1400 — Date/Time	FEDEX — Print First and Last Name; Signature; Date/Time
FedEx — Print First and Last Name; Signature; Date/Time	Reed Pc Hruff — Print First and Last Name; Signature; 1-18-18 0930 — Date/Time
Relinquished By: — Print First and Last Name; Signature; Date/Time	Received By: — Print First and Last Name; Signature; Date/Time

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 1/3/2018 FSR ID = FSR55822 A-6004-842 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C.# W18-001-330 Page 1 of 1

Collector:	Dan Woehle CHPRC DW0308	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	W18-001	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	300071
Project Title:	RCRA, JANUARY 2018	**Logbook No.:**	HNF-N-506 - 95179	**Ice Chest No.:**	GWS-350
Shipped To (Lab):	TestAmerica Denver	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.:**	7712 2999 5229
Protocol	RCRA	**Priority:**	30 Days	**Offsite Property No.:**	8965

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3FXM3	N	W	JAN 16 2018	0957	4x1-L-aG	8081_PEST_GC: COMMON; 8081_PEST_GC: CH 01	7/40 Days	Cool <=6C

Relinquished By:	Received By:
Dan Woehle CHPRC — Print First and Last Name; Signature; JAN 16 2018 1040 — Date/Time	Troy Bacon CHPRC — Print First and Last Name; Signature; JAN 16 2018 1640 — Date/Time
Troy Bacon CHPRC — Print First and Last Name; Signature; JAN 16 2018 1400 — Date/Time	FEDEX — Print First and Last Name; Signature; Date/Time
Fed Ex — Print First and Last Name; Signature; Date/Time	Reed Lofthouse — Print First and Last Name; Signature; 1-18-18 0930 — Date/Time
Relinquished By: — Print First and Last Name; Signature; Date/Time	Received By: — Print First and Last Name; Signature; Date/Time

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 1/3/2018 FSR ID = FSR55821 A-6004-842 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W18-001-390 Page 1 of 1

Collector: Juan Aguilar /CHPRC DW0308	**Contact/Requester:** Karen Waters-Husted	**Telephone No.:** 509-376-4650
SAF No.: W18-001	**Sampling Origin:** Hanford Site	**Purchase Order/Charge Code:** 300071
Project Title: RCRA, JANUARY 2018	**Logbook No.:** HNF-N-506 ~98/26	**Ice Chest No.:** GWS-389
Shipped To (Lab): TestAmerica Denver	**Method of Shipment** Commercial Carrier	**Bill of Lading/Air Bill No.:** 771227248118
Protocol RCRA	**Priority:** 30 Days	**Offsite Property No.:** 89160

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3FR99	Y	W	1-15-18	1241	1x500-mL G/P	6010_METALS_ICP: COMMON; 6020_METALS_ICPMS: Arsenic (1)	6 Months	HNO3 to pH <2
B3FYF7	N	W	1-15-18	1241	1x500-mL G/P	6010_METALS_ICP: COMMON; 6020_METALS_ICPMS: Arsenic (1)	6 Months	HNO3 to pH <2

Relinquished By	Signature	Date/Time	Received By	Signature	Date/Time
Juan Aguilar /CHPRC		JAN 15 2018 1420	SSU#1		JAN 15 2018 1420
SSU-1		JAN 16 2018 0900	Lesly Wall /CHPRC	Lesly Wall	JAN 16 2018 0900
Lesly Wall /CHPRC	Lesly Wall	JAN 16 2018 1400	FEDEX		
FedEx			Reed Pottmuff	Reed Pottmuff	1-18-18 0930

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 11/21/2017 FSR ID = FSR54007 A-6004-842 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C.# W18-001-336 Page 1 of 1

Collector: Barbara Briggs /CHPRC DN0308	**Contact/Requester:** Karen Waters-Husted	**Telephone No.:** 509-376-4650
SAF No.: W18-001	**Sampling Origin:** Hanford Site	**Purchase Order/Charge Code:** 300071
Project Title: RCRA, JANUARY 2018	**Logbook No.:** HNF-N-506 -95 Pg. 78	**Ice Chest No.:** GWS-384
Shipped To (Lab): TestAmerica Denver	**Method of Shipment** Commercial Carrier	**Bill of Lading/Air Bill No.:** 7712 2724 8918
Protocol RCRA	**Priority:** 30 Days	**Offsite Property No.:** 8960

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3FXP0	N	W	1/15/18	0957	1x500-mL G/P	7470_MERCURY_CV: COMMON (AQUEOUS); 6020_METALS_ICPMS: GW 01; 6010_METALS_ICP: GW 04	28 Days	HNO3 to pH <2
B3FXP0	N	W	|	|	4x1-L aG	8270_PHENOLIC_GC: COMMON	7/40 Days	Cool <=6C
B3FXP0	N	W	|	|	4x1-L aG	8151_HERBICIDE_GC: COMMON	7/40 Days	Cool <=6C
B3FTF6	Y	W	1/15/18	0957	1x500-mL G/P	6020_METALS_ICPMS: GW 01; 6010_METALS_ICP: GW 04	6 Months	HNO3 to pH <2

Relinquished By:	Received By:
Barbara Briggs /CHPRC — Print First and Last Name; Signature; JAN 1 5 2018 1445 Date/Time	SSU-1 — Print First and Last Name; Signature; JAN 1 5 2018 1445 Date/Time
SSU-1 — Print First and Last Name; Signature; JAN 1 6 2018 0900 Date/Time	Lesly Wall /CHPRC — Print First and Last Name; Signature; JAN 1 6 2018 0900 Date/Time
Lesly Wall /CHPRC — Print First and Last Name; Signature; JAN 1 6 2018 1400 Date/Time	FEDEX — Print First and Last Name; Signature; Date/Time
Fed Ex — Print First and Last Name; Signature; Date/Time	Reed Rothrock — Print First and Last Name; Signature; 1/18/18 0930 Date/Time

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 12/5/2017 FSR ID = FSR54255 A-6004-842 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W18-001-393 Page 1 of 1

Collector:	Juan Aguilar /CHPRC PN0308	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	W18-001	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	300071
Project Title:	RCRA, JANUARY 2018	**Logbook No.:**	HNF-N-506 -98124	**Ice Chest No.:**	GWS-384
Shipped To (Lab):	TestAmerica Denver	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.:**	7712 27248118
Protocol	RCRA	**Priority:**	30 Days	**Offsite Property No.:**	8960

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3FYF9	N	W	1-15-18	1340	1x250-mL G/P	2320_ALKALINITY: GW 01	14 Days	Cool <=6C

Relinquished By:	Signature	Date/Time	Received By:	Signature	Date/Time
Juan Aguilar /CHPRC		JAN 15 2018 1420	SSU #1		JAN 15 2018 1420
SSU-1		JAN 16 2018 0900	Lesly Wall /CHPRC		JAN 16 2018 0900
Lesly Wall /CHPRC		JAN 16 2018 1400	FEDEX		
Fed Ex			Reed Hoffman		1-18-18 0920

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 11/21/2017 FSR ID = FSR53965 A-6004-842 (REV 3)

68 lbs

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C.# W18-001-394 Page 1 of 12

Collector:	Juan Aguilar /CHPRC JN0308	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650 KW 1/16/18
SAF No.:	W18-001	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	300071
Project Title:	RCRA, JANUARY 2018	**Logbook No.:**	HNF-N-506 -98/26	**Ice Chest No.:**	GWS-399
Shipped To (Lab):	TestAmerica Denver	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.:**	771227248541
Protocol	RCRA	**Priority:**	30 Days	**Offsite Property No.:**	8960

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3FYH3	N	W	1-15-18	0932	1x500-mL G/P	7470_MERCURY_CV: COMMON (AQUEOUS); 6020_METALS_ICPMS: GW 01; 6010_METALS_ICP: GW 04	28 Days	HNO3 to pH <2
B3FYH3	N	W	1-15-18	0932	1x250-mL G/P	2320_ALKALINITY: GW 01	14 Days	Cool <=6C
B3FTX6	Y	W	1-15-18	0932	1x500-mL G/P	7470_MERCURY_CV: COMMON (AQUEOUS); 6020_METALS_ICPMS: GW 01; 6010_METALS_ICP: GW 04	28 Days	HNO3 to pH <2

Relinquished By	Print First and Last Name	Signature	Date/Time	Received By	Print First and Last Name	Signature	Date/Time
Juan Aguilar /CHPRC			JAN 15 2018 1140	Roger Friesz Jr. /CHPRC			JAN 15 2018 1140
Roger Friesz Jr. /CHPRC			JAN 15 2018 1344	SSU-1			JAN 15 2018 1344
SSU-1			JAN 16 2018 0900	Lesly Wall /CHPRC			JAN 16 2018 0900
Lesly Wall /CHPRC			JAN 16 2018 1400	FEDEX			

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 1/3/2018 FSR ID = FSR55833 A-6004-842 (REV 3)

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST (continued)

C.O.C. No. 6018-001-394

Page 2 of 2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	FedEx				Reed Pottorff		1-18-18 0930
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time

A-6003-962 (03/05)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C.# W18-001-325 Page 1 of 1

Collector:	Barbara Briggs /CHPRC DWG308	Contact/Requester:	Karen Waters-Husted	Telephone No.:	509-376-4650
SAF No.:	W18-001	Sampling Origin:	Hanford Site	Purchase Order/Charge Code:	300071
Project Title:	RCRA, JANUARY 2018	Logbook No.:	HNF-N-506 -95 pg. 78	Ice Chest No.:	GWS-399
Shipped To (Lab):	TestAmerica Denver	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.:	7712 2724 8541
Protocol	RCRA	Priority:	30 Days	Offsite Property No.:	8960

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3FXL4	N	W	1/15/18	1232	1x250-mL G/P	2320_ALKALINITY: GW 01	14 Days	Cool <=6C
B3FXL4	N	W	1/15/18	1232	4x1-L aG	8270_PHENOLIC_GC: COMMON	7/40 Days	Cool <=6C

Relinquished By:	Received By:
Barbara Briggs /CHPRC — Print First and Last Name; Signature; JAN 15 2018 1445 Date/Time	SSU-1 — Print First and Last Name; Signature; JAN 15 2018 1445 Date/Time
SSU-1 — Print First and Last Name; Signature; JAN 16 2018 0900 Date/Time	Lesly Wall /CHPRC — Print First and Last Name; Signature; JAN 16 2018 0900 Date/Time
Lesly Wall /CHPRC — Print First and Last Name; Signature; JAN 16 2018 1400 Date/Time	FEDEX — Print First and Last Name; Signature; Date/Time
FedEx — Print First and Last Name; Signature; Date/Time	Reed Hoffman — Print First and Last Name; Signature; 1/18/18 0920 Date/Time

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 11/21/2017 FSR ID = FSR53971 A-6004-842 (REV 3)

68 lbs

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C.# W18-001-395 Page 1 of 12

Collector:	Juan Aguilar /CHPRC DW0308	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650 dlo 1/16/18
SAF No.:	W18-001	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	300071
Project Title:	RCRA, JANUARY 2018	**Logbook No.:**	HNF-N-506-98/24	**Ice Chest No.:**	GWS-399
Shipped To (Lab):	TestAmerica Denver	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.:**	7712 2724 8541
Protocol	RCRA	**Priority:**	30 Days	**Offsite Property No.:**	8960

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3FYH4	N	W	1-15-18	1104	4x1-L aG	8270_PHENOLIC_GC: COMMON	7/40 Days	Cool <=6C

Relinquished By	Print First and Last Name	Signature	Date/Time	Received By	Print First and Last Name	Signature	Date/Time
Juan Aguilar /CHPRC		JAN 15 2018	1140	Roger Friesz Jr. /CHPRC		JAN 15 2018	1140
Roger Friesz Jr. /CHPRC		JAN 15 2018	1347	SSU-1		1/15/18 JAN 15 2018	1347
SSU-1		JAN 16 2018	0900	Lesly Wall /CHPRC		JAN 16 2018	0900
Lesly Wall /CHPRC		JAN 16 2018	1400	FEDEX			

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 1/3/2018 FSR ID = FSR55834 A-6004-842 (REV 3)

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST (continued)

C.O.C. No. W18-001-395

Page 2 of 2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	FedEx			Reed Pettrutt		Reed Pettrutt	1-18-18 0930
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time

A-6003-962 (03/05)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W18-001-343 Page 1 of 1

Collector: Dan Woehle CHPRC DW0308	**Contact/Requester:** Karen Waters-Husted	**Telephone No.:** 509-376-4650
SAF No.: W18-001	**Sampling Origin:** Hanford Site	**Purchase Order/Charge Code:** 300071
Project Title: RCRA, JANUARY 2018	**Logbook No.:** HNF-N-506-95/81	**Ice Chest No.:** GWS-411
Shipped To (Lab): TestAmerica Denver	**Method of Shipment** Commercial Carrier	**Bill of Lading/Air Bill No.:** 771240212927
Protocol RCRA	**Priority:** 30 Days	**Offsite Property No.:** 89172

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3FXD2	N	W	JAN 17 2018	0903	4x1-L aG	8151_HERBICIDE_GC: COMMON	7/40 Days	Cool <=6C
B3FXD2	N	W	↓	↓	4x1-L aG	8081_PEST_GC: COMMON; 8081_PEST_GC: CH 01	7/40 Days	Cool <=6C
B3FXD2	N	W	JAN 17 2018	0903	4x1-L aG	8082_PCB_GC: COMMON	None	Cool <=6C

Relinquished By	Print First and Last Name	Signature	Date/Time	Received By	Print First and Last Name	Signature	Date/Time
Dan Woehle CHPRC			JAN 17 2018 1035	Troy Bacon CHPRC			JAN 17 2018 1035
Troy Bacon CHPRC			JAN 17 2018 1400	FEDEX			
FedEx				Reed Rothrock			1-18-18 0930

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	Wl = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 11/29/2017 FSR ID = FSR54149 A-6004-842 (REV 3)

CH2MHill Plateau Remediation Company	92 LBS. CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W18-001-002 Page 1 of 1

Collector:	Dan Woehle CHPRC DW0308	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	W18-001	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	300071
Project Title:	RCRA, JANUARY 2018	**Logbook No.:**	HNF-N-506 -95/81	**Ice Chest No.:**	GWS-524
Shipped To (Lab):	TestAmerica Denver	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.:**	771240212835
Protocol	RCRA	**Priority:**	30 Days	**Offsite Property No.:**	8972

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3FV61	Y	W	JAN 17 2018	0903	1x500-mL G/P	7470_MERCURY_CV: COMMON (AQUEOUS); 6020_METALS_ICPMS: GW 01; 6010_METALS_ICP: GW 04	28 Days	HNO3 to pH <2
B3FV55	N	W	↓	↓	1x500-mL G/P	7470_MERCURY_CV: COMMON (AQUEOUS); 6020_METALS_ICPMS: GW 01; 6010_METALS_ICP: GW 04	28 Days	HNO3 to pH <2
B3FV55	N	W	JAN 17 2018	0903	1x250-mL G/P	2320_ALKALINITY: GW 01	14 Days	Cool <=6C

Relinquished By: Dan Woehle CHPRC	Dan Woehle	JAN 17 2018 1035	Received By: Troy Bacon CHPRC	Troy L. Bacon	JAN 17 2018 1035
Print First and Last Name	Signature	Date/Time	Print First and Last Name	Signature	Date/Time
Relinquished By: Troy Bacon CHPRC	Troy L. Bacon	JAN 17 2018 1400	Received By: FEDEX		
Print First and Last Name	Signature	Date/Time	Print First and Last Name	Signature	Date/Time
Relinquished By:	FedEx		Received By: Reed Poffenroth	Reed Poffenroth	1-18-18 0930
Print First and Last Name	Signature	Date/Time	Print First and Last Name	Signature	Date/Time
Relinquished By:			Received By:		
Print First and Last Name	Signature	Date/Time	Print First and Last Name	Signature	Date/Time

Matrix *
S = Soil, SE = Sediment, SO = Solid, SL = Sludge, W = Water, O = Oil, A = Air, DS = Drum Solids, DL = Drum Liquid, T = Tissue, WI = Wipe, L = Liquid, V = Vegetation, X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 11/29/2017 FSR ID = FSR54149 A-6004-842 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W18-001-291 Page 1 of 1

Collector: IVAN SCHAEFFER CHPRC DNC308	**Contact/Requester:** Karen Waters-Husted	**Telephone No.:** 509-376-4650
SAF No.: W18-001	**Sampling Origin:** Hanford Site	**Purchase Order/Charge Code:** 300071
Project Title: RCRA, JANUARY 2018	**Logbook No.:** HNF-N-506 - 96182	**Ice Chest No.:** GWS-524
Shipped To (Lab): TestAmerica Denver	**Method of Shipment** Commercial Carrier	**Bill of Lading/Air Bill No.:** 771240212835
Protocol RCRA	**Priority:** 30 Days	**Offsite Property No.:** 8972

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3FXD3	N	W	1-17-18	0845	4x1-L aG	8151_HERBICIDE_GC: COMMON	7/40 Days	Cool <=6C
B3FXD3	N	W	1-17-18	0845	4x1-L aG	8081_PEST_GC: COMMON; 8081_PEST_GC: CH 01	7/40 Days	Cool <=6C
B3FXD3	N	W	1-17-18	0845	4x1-L aG	8082_PCB_GC: COMMON	None	Cool <=6C

Relinquished By	Print First and Last Name	Signature	Date/Time	Received By	Print First and Last Name	Signature	Date/Time
IVAN SCHAEFFER CHPRC		JAN 17 2018	1020	Troy Bacon CHPRC	Troy L. Bacon	JAN 17 2018	1020
Troy Bacon CHPRC	Troy L. Bacon	JAN 17 2018	1400	FEDEX			
	Fed Ex			Reed	Rottinghaus	Reed	1-18-18 0930

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 11/29/2017 FSR ID = FSR54151 A-6004-842 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W18-001-135 Page 1 of 2

Collector: Dan Woehle CHPRC DW0308	**Contact/Requester:** Karen Waters-Husted	**Telephone No.:** 509-376-4650
SAF No.: W18-001	**Sampling Origin:** Hanford Site	**Purchase Order/Charge Code:** 300071
Project Title: RCRA, JANUARY 2018	**Logbook No.:** HNF-N-506 ~98/81	**Ice Chest No.:** GWS-405
Shipped To (Lab): TestAmerica Denver	**Method of Shipment** Commercial Carrier	**Bill of Lading/Air Bill No.:** 771240213176
Protocol RCRA	**Priority:** 30 Days	**Offsite Property No.:** 8972

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3FRR6	N	W	JAN 17 2018	0903	1x1-L aGs*	9020_TOX: COMMON	28 Days	H2SO4 to pH <2 / Cool <=6C
B3FRR6	N	W			1x250-mL aG	9060_TOC: COMMON	28 Days	HCl or H2SO4 to pH <2 / Cool <=6C
B3FV57	N	W			1x1-L aGs*	9020_TOX: COMMON	28 Days	H2SO4 to pH <2 / Cool <=6C
B3FV57	N	W			1x250-mL aG	9060_TOC: COMMON	28 Days	HCl or H2SO4 to pH <2 / Cool <=6C
B3FRR4	N	W			1x1-L aGs*	9020_TOX: COMMON	28 Days	H2SO4 to pH <2 / Cool <=6C
B3FRR4	N	W			1x250-mL aG	9060_TOC: COMMON	28 Days	HCl or H2SO4 to pH <2 / Cool <=6C
B3FRR5	N	W	JAN 17 2018	0903	1x1-L aGs*	9020_TOX: COMMON	28 Days	H2SO4 to pH <2 / Cool <=6C

Relinquished By:	Signature	Date/Time	Received By:	Signature	Date/Time
Dan Woehle CHPRC		JAN 17 2018 1035	Troy Bacon CHPRC	Troy L. Bacon	JAN 17 2018 1035
Troy Bacon CHPRC	Troy L. Bacon	JAN 17 2018 1400	FEDEX		
	FedEx		Reed Pettman	Reed P	1-18-18 0930

Matrix *
S = Soil, SE = Sediment, SO = Solid, SL = Sludge, W = Water, O = Oil, A = Air, DS = Drum Solids, DL = Drum Liquid, T = Tissue, WI = Wipe, L = Liquid, V = Vegetation, X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 11/29/2017 FSR ID = FSR54149 A-6004-842 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C.# W18-001-135 Page 2 of 2

Collector: Dan Woehle CHPRC DWC308	**Contact/Requester:** Karen Waters-Husted	**Telephone No.:** 509-376-4650
SAF No.: W18-001	**Sampling Origin:** Hanford Site	**Purchase Order/Charge Code:** 300071
Project Title: RCRA, JANUARY 2018	**Logbook No.:** HNF-N-506 -95/81	**Ice Chest No.:** GWS-405
Shipped To (Lab): TestAmerica Denver	**Method of Shipment** Commercial Carrier	**Bill of Lading/Air Bill No.:** 7712 4021 3176
Protocol RCRA	**Priority:** 30 Days	**Offsite Property No.:** 8972

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3FRR5	N	W	JAN 17 2018	0903	1x250-mL aG	9060_TOC: COMMON	28 Days	HCl or H2SO4 to pH <2 / Cool <=6C

Relinquished By: Dan Woehle CHPRC	Dan Woehle	JAN 17 2018 1035	Received By: Troy Bacon CHPRC	Troy L. Bacon	JAN 17 2018 1035
Print First and Last Name	Signature	Date/Time	Print First and Last Name	Signature	Date/Time
Relinquished By: Troy Bacon CHPRC	Troy L. Bacon	JAN 17 2018 1400	Received By: FEDEX		
Print First and Last Name	Signature	Date/Time	Print First and Last Name	Signature	Date/Time
Relinquished By:	FedEx		Received By: Reed Hoffman	Reed Hoffman	1-18-18 0930
Print First and Last Name	Signature	Date/Time	Print First and Last Name	Signature	Date/Time
Relinquished By:			Received By:		
Print First and Last Name	Signature	Date/Time	Print First and Last Name	Signature	Date/Time

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 11/29/2017 FSR ID = FSR54149 A-6004-842 (REV 3)

84165

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W18-001-137 Page 1 of 2

Collector:	IVAN SCHAEFFER CHPRC DW0308	Contact/Requester:	Karen Waters-Husted	Telephone No.:	509-376-4650
SAF No.:	W18-001	Sampling Origin:	Hanford Site	Purchase Order/Charge Code:	300071
Project Title:	RCRA, JANUARY 2018	Logbook No.:	HNF-N-506-96182	Ice Chest No.:	GWS-405
Shipped To (Lab):	TestAmerica Denver	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.:	7712 4021 3176
Protocol	RCRA	Priority:	30 Days	Offsite Property No.:	89172

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3FR38	N	W	1-17-18	0845	1x1-L aGs*	9020_TOX: COMMON	28 Days	H2SO4 to pH <2 / Cool <=6C
B3FR38	N	W			1x250-mL aG	9060_TOC: COMMON	28 Days	HCl or H2SO4 to pH <2 / Cool <=6C
B3FVD6	N	W			1x1-L aGs*	9020_TOX: COMMON	28 Days	H2SO4 to pH <2 / Cool <=6C
B3FVD6	N	W			1x250-mL aG	9060_TOC: COMMON	28 Days	HCl or H2SO4 to pH <2 / Cool <=6C
B3FVD7	N	W			1x1-L aGs*	9020_TOX: COMMON	28 Days	H2SO4 to pH <2 / Cool <=6C
B3FVD7	N	W			1x250-mL aG	9060_TOC: COMMON	28 Days	HCl or H2SO4 to pH <2 / Cool <=6C
B3FVD8	N	W	1-17-18	0845	1x1-L aGs*	9020_TOX: COMMON	28 Days	H2SO4 to pH <2 / Cool <=6C

Relinquished By:	Received By:
Ivan Schaeffer CHPRC — Ivan Schaeffer — JAN 17 2018 1020 (Print First and Last Name / Signature / Date/Time)	Troy Bacon CHPRC — Troy L. Bacon — JAN 17 2018 1020 (Print First and Last Name / Signature / Date/Time)
Relinquished By: Troy Bacon CHPRC — Troy L. Bacon — JAN 17 2018 1400 (Print First and Last Name / Signature / Date/Time)	Received By: FEDEX (Print First and Last Name / Signature / Date/Time)
Relinquished By: FedEx (Print First and Last Name / Signature / Date/Time)	Received By: Reed Pottmeyer — 1-18-18 0830 (Print First and Last Name / Signature / Date/Time)
Relinquished By: (Print First and Last Name / Signature / Date/Time)	Received By: (Print First and Last Name / Signature / Date/Time)

Matrix *
S = Soil, SE = Sediment, SO = Solid, SL = Sludge, W = Water, O = Oil, A = Air
DS = Drum Solids, DL = Drum Liquid, T = Tissue, WI = Wipe, L = Liquid, V = Vegetation, X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 11/29/2017 FSR ID = FSR54151 A-6004-842 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W18-001-137 Page 2 of 2

Collector:	IVAN SCHAEFFER CHPRC DW0308	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	W18-001	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	300071
Project Title:	RCRA, JANUARY 2018	**Logbook No.:**	HNF-N-506-96182	**Ice Chest No.:**	GWS-405
Shipped To (Lab):	TestAmerica Denver	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.:**	7712402131 76
Protocol	RCRA	**Priority:**	30 Days	**Offsite Property No.:**	8972

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3FVD8	N	W	1-17-18	0845	1x250-mL aG	9060_TOC: COMMON	28 Days	HCl or H2SO4 to pH <2 / Cool <=6C

Relinquished By	Received By
IVAN SCHAEFFER CHPRC — Print First and Last Name; Signature: Dwn Schaeffer; JAN 17 2018 1020 — Date/Time	Troy Bacon CHPRC — Print First and Last Name; Signature: Troy L. Bacon; JAN 17 2018 1020 — Date/Time
Troy Bacon CHPRC — Print First and Last Name; Signature: Troy L. Bacon; JAN 17 2018 1400 — Date/Time	FEDEX — Print First and Last Name; Signature; Date/Time
FedEx — Print First and Last Name; Signature; Date/Time	Reed Portmiff — Print First and Last Name; Signature: Reed Portmiff; 1-18-18 0930 — Date/Time
Relinquished By: — Print First and Last Name; Signature; Date/Time	Received By: — Print First and Last Name; Signature; Date/Time

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 11/29/2017 FSR ID = FSR54151 A-6004-842 (REV 3)

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FedEx® Tracking

771235889351

Ship date:		Actual delivery:
Wed 1/17/2018		**Thu 1/18/2018 9:23 am**
Richland, WA US	**Delivered** *Signed for by A GOMEZ*	ARVADA, CO US

Travel History

Date/Time	Activity	Location
- 1/18/2018 - Thursday		
9:23 am	Delivered	ARVADA, CO
9:08 am	On FedEx vehicle for delivery	ARVADA, CO
8:34 am	At local FedEx facility	ARVADA, CO
6.33 am	In transit	MEMPHIS, TN
6.27 am	At destination sort facility	DENVER, CO
6:23 am	In transit	MEMPHIS, TN
5.23 am	Departed FedEx location	MEMPHIS, TN
4:09 am	In transit	MEMPHIS, TN
12:29 am	Arrived at FedEx location	MEMPHIS, TN
- 1/17/2018 - Wednesday		
4 47 pm	Left FedEx origin facility	PASCO, WA
2.43 pm	Picked up	PASCO, WA
10 17 am	Shipment information sent to FedEx	

Shipment Facts

Tracking Number	771235889351	**Service**	FedEx Priority Overnight
Weight	48 lbs / 21.77 kgs	**Signature services**	Direct signature required
Delivered To	Shipping/Receiving	**Total pieces**	1
Total shipment weight	48 lbs / 21.77 kgs	**Terms**	Third Party
Shipper reference	ptn# 8967/cooler# gws-660	**Packaging**	Your Packaging
Special handling section	Deliver Weekday, Additional Handling Surcharge, Direct Signature Required	**Standard transit**	1/18/2018 by 10:30 am

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FedEx® Tracking

771229996199

Ship date:		Actual delivery:
Tue 1/16/2018		**Thu 1/18/2018 9:23 am**
Richland, WA US	**Delivered** *Signed for by: A GOMEZ*	ARVADA, CO US

2 Piece shipment

Travel History

Date/Time	Activity	Location
1/18/2018 - Thursday		
9:23 am	Delivered	ARVADA, CO
9:06 am	On FedEx vehicle for delivery	ARVADA, CO
7:16 am	At local FedEx facility	ARVADA, CO
12:18 am	At local FedEx facility	DENVER, CO
1/17/2018 - Wednesday		
7:10 pm	At local FedEx facility	DENVER, CO
5:43 pm	At destination sort facility	DENVER, CO
4:35 pm	Departed FedEx location	MEMPHIS, TN
5:32 am	In transit	MEMPHIS, TN
1/16/2018 - Tuesday		
4:51 pm	Left FedEx origin facility	PASCO, WA
2:39 pm	Shipment information sent to FedEx	
2:17 pm	Picked up	PASCO, WA

Shipment Facts

Tracking Number	771229996199	**Service**	FedEx Priority Overnight
Master tracking number	771229995229	**Weight**	64 lbs / 29.03 kgs
		Delivered To	Shipping/Receiving
Signature services	Direct signature required	**Total shipment weight**	64 lbs / 29.03 kgs
Total pieces	2	**Shipper reference**	ptr# 8965
Terms	Third Party	**Special handling section**	Deliver Weekday, Additional Handling Surcharge, Direct Signature Required
Packaging	Your Packaging		
Standard transit	1/17/2018 by 10:30 am		

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771229995229

Ship date:		Actual delivery:
Tue 1/16/2018		**Thu 1/18/2018 9:23 am**
Richland, WA US	**Delivered** *Signed for by: A.GOMEZ*	ARVADA, CO US

2 Piece shipment

Travel History

Date/Time	Activity	Location
- 1/18/2018 - Thursday		
9:23 am	Delivered	ARVADA, CO
9:08 am	On FedEx vehicle for delivery	ARVADA, CO
8:34 am	At local FedEx facility	ARVADA, CO
7:50 am	In transit	MEMPHIS, TN
7:19 am	In transit	MEMPHIS, TN
6:27 am	At destination sort facility	DENVER, CO
5:23 am	Departed FedEx location	MEMPHIS, TN
- 1/17/2018 - Wednesday		
5:32 am	In transit	MEMPHIS, TN
4:29 am	In transit	MEMPHIS, TN
1:33 am	Arrived at FedEx location	MEMPHIS, TN
- 1/16/2018 - Tuesday		
4:51 pm	Left FedEx origin facility	PASCO, WA
2:39 pm	Shipment information sent to FedEx	
2:17 pm	Picked up	PASCO, WA

Shipment Facts

Tracking Number	771229995229	**Service**	FedEx Priority Overnight
Master tracking number	771229995229	**Weight**	90 lbs / 40.82 kgs
Dimensions	28x16x17 in	**Signature services**	Direct signature required
Delivered To	Shipping/Receiving	**Total pieces**	2
Total shipment weight	154 lbs / 69.85 kgs	**Terms**	Third Party
Shippor reference	ptr# 8965	**Packaging**	Your Packaging
Special handling section	Deliver Weekday, Additional Handling Surcharge, Direct Signature Required	**Standard transit**	1/17/2018 by 10:30 am

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771227248118

Ship date.		Actual delivery.
Tue 1/16/2018		**Thu 1/18/2018 9:23 am**
Richland, WA US	**Delivered** *Signed for by: A.GOMEZ*	ARVADA, CO US

2 Piece shipment

Travel History

Date/Time	Activity	Location
1/18/2018 - Thursday		
9 23 am	Delivered	ARVADA, CO
9.08 am	On FedEx vehicle for delivery	ARVADA, CO
8.34 am	At local FedEx facility	ARVADA, CO
7.49 am	In transit	MEMPHIS, TN
7.19 am	In transit	MEMPHIS, TN
6.27 am	At destination sort facility	DENVER, CO
5.23 am	Departed FedEx location	MEMPHIS TN
1/17/2018 - Wednesday		
5.32 am	In transit	MEMPHIS, TN
4.29 am	In transit	MEMPHIS, TN
1.33 am	Arrived at FedEx location	MEMPHIS TN
1/16/2018 - Tuesday		
4 51 pm	Left FedEx origin facility	PASCO, WA
2 17 pm	Picked up	PASCO, WA
12 13 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking Number	771227248118	**Service**	FedEx Priority Overnight
Master tracking number	771227248541	**Weight**	67 lbs / 30.39 kgs
Signature services	Direct signature required	**Delivered To**	Shipping/Receiving
Total pieces	2	**Total shipment weight**	67 lbs / 30 39 kgs
Terms	Third Party	**Shipper reference**	ptr# 8960
Packaging	Your Packaging	**Special handling section**	Deliver Weekday, Direct Signature Required
Standard transit	1/17/2018 by 10.30 am		

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771227248541

Ship date		Actual delivery:
Tue 1/16/2018		**Thu 1/18/2018 9:23 am**
Richland, WA US	**Delivered** *Signed for by A GOMEZ*	ARVADA, CO US

2 Piece shipment

Travel History

Date/Time	Activity	Location
- 1/18/2018 - Thursday		
9:23 am	Delivered	ARVADA, CO
9:08 am	On FedEx vehicle for delivery	ARVADA, CO
7:35 am	At local FedEx facility	ARVADA, CO
12.18 am	At local FedEx facility	DENVER, CO
- 1/17/2018 - Wednesday		
5:43 pm	At destination sort facility	DENVER, CO
4:35 pm	Departed FedEx location	MEMPHIS, TN
4:29 am	In transit	MEMPHIS, TN
1:33 am	Arrived at FedEx location	MEMPHIS, TN
- 1/16/2018 - Tuesday		
4:51 pm	Left FedEx origin facility	PASCO, WA
2.17 pm	Picked up	PASCO, WA
12.13 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking Number	771227248541	**Service**	FedEx Priority Overnight
Master tracking number	771227248541	**Weight**	68 lbs / 30 84 kgs
		Signature services	Direct signature required
Dimensions	24x15x15 in	**Total pieces**	2
Delivered To	Shipping/Receiving	**Terms**	Third Party
Total shipment weight	135 lbs / 61 23 kgs	**Packaging**	Your Packaging
Shipper reference	ptr# 8960	**Standard transit**	1/17/2018 by 10 30 am
Special handling section	Deliver Weekday, Additional Handling Surcharge, Direct Signature Required		

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771240212927

Ship date.		Actual delivery.
Wed 1/17/2018		**Thu 1/18/2018 9:23 am**
Richland, WA US	**Delivered** *Signed for by A GOMEZ*	ARVADA, CO US

3 Piece shipment

Travel History

Date/Time	Activity	Location
- 1/18/2018 - Thursday		
9:23 am	Delivered	ARVADA, CO
9:08 am	On FedEx vehicle for delivery	ARVADA, CO
8:32 am	At local FedEx facility	ARVADA, CO
6:33 am	In transit	MEMPHIS, TN
6:27 am	At destination sort facility	DENVER, CO
6:23 am	In transit	MEMPHIS, TN
5:23 am	Departed FedEx location	MEMPHIS, TN
4:09 am	In transit	MEMPHIS, TN
12:29 am	Arrived at FedEx location	MEMPHIS, TN
- 1/17/2018 - Wednesday		
4:47 pm	Left FedEx origin facility	PASCO, WA
2:43 pm	Picked up	PASCO, WA
2:37 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking Number	771240212927	**Service**	FedEx Priority Overnight
Master tracking number	771240212835	**Weight**	93 lbs / 42.18 kgs
Signature services	Direct signature required	**Delivered To**	Shipping/Receiving
Total pieces	3	**Total shipment weight**	93 lbs / 42.18 kgs
Terms	Third Party	**Shipper reference**	ptr# 8972
Packaging	Your Packaging	**Special handling section**	Deliver Weekday, Direct Signature Required
Standard transit	1/18/2018 by 10:30 am		

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771240212835

Ship date.		Actual delivery.
Wed 1/17/2018		**Thu 1/18/2018 9:23 am**
Richland, WA US	**Delivered** *Signed for by A GOMEZ*	ARVADA, CO US

3 Piece shipment

Travel History

Date/Time	Activity	Location
- 1/18/2018 - Thursday		
9.23 am	Delivered	ARVADA, CO
9.08 am	On FedEx vehicle for delivery	ARVADA, CO
8.37 am	At local FedEx facility	ARVADA, CO
7.08 am	In transit	MEMPHIS, TN
6.37 am	In transit	MEMPHIS, TN
6.27 am	At destination sort facility	DENVER, CO
5.23 am	Departed FedEx location	MEMPHIS, TN
4:09 am	In transit	MEMPHIS, TN
12 29 am	Arrived at FedEx location	MEMPHIS, TN
- 1/17/2018 - Wednesday		
4.47 pm	Left FedEx origin facility	PASCO, WA
2 43 pm	Picked up	PASCO, WA
2.37 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking Number	771240212835	**Service**	FedEx Priority Overnight
Master tracking number	771240212835	**Weight**	92 lbs / 41 73 kgs
Signature services	Direct signature required	**Delivered To**	Shipping/Receiving
Total pieces	3	**Total shipment weight**	269 lbs / 122 02 kgs
Terms	Third Party	**Shipper reference**	ptr# 8972
Packaging	Your Packaging	**Special handling section**	Deliver Weekday, Direct Signature Required
Standard transit	1/18/2018 by 10.30 am		

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771240213176

Ship date:		Actual delivery:
Wed 1/17/2018		**Thu 1/18/2018 9:23 am**
Richland, WA US	**Delivered** *Signed for by: A GOMEZ*	ARVADA, CO US

3 Piece shipment

Travel History

Date/Time	Activity	Location
- 1/18/2018 - Thursday		
9:23 am	Delivered	ARVADA, CO
9:08 am	On FedEx vehicle for delivery	ARVADA, CO
8:32 am	At local FedEx facility	ARVADA, CO
6:33 am	In transit	MEMPHIS, TN
6:27 am	At destination sort facility	DENVER, CO
6:23 am	In transit	MEMPHIS, TN
5:23 am	Departed FedEx location	MEMPHIS, TN
4:08 am	In transit	MEMPHIS, TN
12:29 am	Arrived at FedEx location	MEMPHIS, TN
- 1/17/2018 - Wednesday		
4:47 pm	Left FedEx origin facility	PASCO, WA
2:43 pm	Picked up	PASCO, WA
2:37 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking Number	771240213176	**Service**	FedEx Priority Overnight
Master tracking number	771240212835	**Weight**	84 lbs / 38.1 kgs
Signature services	Direct signature required	**Delivered To**	Shipping/Receiving
Total pieces	3	**Total shipment weight**	84 lbs / 38.1 kgs
Terms	Third Party	**Shipper reference**	ptr# 6972
Packaging	Your Packaging	**Special handling section**	Deliver Weekday, Direct Signature Required
Standard transit	1/18/2018 by 10:30 am		

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
o	LCS, LCSD: Recovery exceeds upper or lower control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.

GC Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
o	LCS, LCSD: Recovery exceeds upper or lower control limits.
y	Duplicate analysis not within control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	See case narrative notes for explanation of the 'X' flag

Metals

Qualifier	Qualifier Description
U	Analyzed for but not detected.
B	Estimated result. Result is less than the RL, but greater than MDL
X	See case narrative notes for explanation of the 'X' flag
C	The analyte was detected in both the sample and the associated QC blank, and the sample concentration was </= 5X the blank concentration.

General Chemistry

Qualifier	Qualifier Description
U	Analyzed for but not detected.
B	Estimated result. Result is less than the RL, but greater than MDL
C	The analyte was detected in both the sample and the associated QC blank, and the sample concentration was </= 5X the blank concentration.
N	MS, MSD: Spike recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-001

TestAmerica Job ID: 280-105586-1
SDG: DN0308

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN
8081B	Organochlorine Pesticides (GC)	SW846	TAL DEN
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL DEN
8151A	Herbicides (GC)	SW846	TAL DEN
6010D	Metals (ICP)	SW846	TAL DEN
6020B	Metals (ICP/MS)	SW846	TAL DEN
7470A	Mercury (CVAA)	SW846	TAL DEN
9020B	Organic Halides, Total (TOX)	SW846	TAL DEN
9060A	Organic Carbon, Total (TOC)	SW846	TAL DEN
SM 2320B	Alkalinity	SM	TAL DEN

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-001

TestAmerica Job ID: 280-105586-1
SDG: DN0308

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-105586-1	B3FRN5	Water	01/16/18 12:29	01/18/18 09:30
280-105586-2	B3FRN7	Water	01/16/18 12:29	01/18/18 09:30
280-105586-3	B3FVC2	Water	01/16/18 11:53	01/18/18 09:30
280-105586-4	B3FVC0	Water	01/16/18 11:53	01/18/18 09:30
280-105586-5	B3FV92	Water	01/16/18 11:24	01/18/18 09:30
280-105586-6	B3FV96	Water	01/16/18 11:24	01/18/18 09:30
280-105586-7	B3FY47	Water	01/16/18 09:49	01/18/18 09:30
280-105586-8	B3FXL9	Water	01/16/18 12:01	01/18/18 09:30
280-105586-9	B3FXT5	Water	01/16/18 12:53	01/18/18 09:30
280-105586-10	B3FTH2	Water	01/16/18 12:53	01/18/18 09:30
280-105586-11	B3FXM0	Water	01/16/18 08:48	01/18/18 09:30
280-105586-13	B3FV72	Water	01/16/18 08:48	01/18/18 09:30
280-105586-14	B3FXN9	Water	01/16/18 10:15	01/18/18 09:30
280-105586-15	B3FXM4	Water	01/16/18 07:30	01/18/18 09:30
280-105586-16	B3FXM3	Water	01/16/18 09:54	01/18/18 09:30
280-105586-17	B3FR99	Water	01/15/18 12:41	01/18/18 09:30
280-105586-18	B3FYF7	Water	01/15/18 12:41	01/18/18 09:30
280-105586-19	B3FXP0	Water	01/15/18 09:57	01/18/18 09:30
280-105586-20	B3FTF6	Water	01/15/18 09:57	01/18/18 09:30
280-105586-21	B3FYF9	Water	01/15/18 13:40	01/18/18 09:30
280-105586-22	B3FYH3	Water	01/15/18 09:32	01/18/18 09:30
280-105586-23	B3FTX6	Water	01/15/18 09:32	01/18/18 09:30
280-105586-24	B3FXL4	Water	01/15/18 12:32	01/18/18 09:30
280-105586-25	B3FYH4	Water	01/15/18 11:04	01/18/18 09:30
280-105586-26	B3FXD2	Water	01/15/18 09:03	01/18/18 09:30
280-105586-27	B3FV61	Water	01/17/18 09:03	01/18/18 09:30
280-105586-28	B3FV55	Water	01/17/18 09:03	01/18/18 09:30
280-105586-29	B3FXD3	Water	01/17/18 08:45	01/18/18 09:30
280-105586-30	B3FRR6	Water	01/17/18 09:03	01/18/18 09:30
280-105586-31	B3FV57	Water	01/17/18 09:03	01/18/18 09:30
280-105586-32	B3FRR4	Water	01/17/18 09:03	01/18/18 09:30
280-105586-33	B3FRR5	Water	01/17/18 09:03	01/18/18 09:30
280-105586-34	B3FR38	Water	01/17/18 08:45	01/18/18 09:30
280-105586-35	B3FVD6	Water	01/17/18 08:45	01/18/18 09:30
280-105586-36	B3FVD7	Water	01/17/18 08:45	01/18/18 09:30
280-105586-37	B3FVD8	Water	01/17/18 08:45	01/18/18 09:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: B3FXP0 — **Lab Sample ID: 280-105586-19**
Date Collected: 01/15/18 09:57 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,6-Tetrachlorophenol	1.9	U	47	1.9	ug/L		01/22/18 07:55	02/01/18 22:36	1
2,4,5-Trichlorophenol	0.42	U	9.4	0.42	ug/L		01/22/18 07:55	02/01/18 22:36	1
2,4,6-Trichlorophenol	0.27	U	9.4	0.27	ug/L		01/22/18 07:55	02/01/18 22:36	1
2,4-Dichlorophenol	0.60	U	9.4	0.60	ug/L		01/22/18 07:55	02/01/18 22:36	1
2,4-Dimethylphenol	0.54	U o	9.4	0.54	ug/L		01/22/18 07:55	02/01/18 22:36	1
2,4-Dinitrophenol	9.4	U	28	9.4	ug/L		01/22/18 07:55	02/01/18 22:36	1
2,6-Dichlorophenol	1.3	U	9.4	1.3	ug/L		01/22/18 07:55	02/01/18 22:36	1
2-Chlorophenol	1.9	U	9.4	1.9	ug/L		01/22/18 07:55	02/01/18 22:36	1
2-Methylphenol	0.92	U	9.4	0.92	ug/L		01/22/18 07:55	02/01/18 22:36	1
2-Nitrophenol	0.37	U	9.4	0.37	ug/L		01/22/18 07:55	02/01/18 22:36	1
3 & 4 Methylphenol	0.23	U	9.4	0.23	ug/L		01/22/18 07:55	02/01/18 22:36	1
4,6-Dinitro-2-methylphenol	3.8	U	47	3.8	ug/L		01/22/18 07:55	02/01/18 22:36	1
4-Chloro-3-methylphenol	2.3	U	9.4	2.3	ug/L		01/22/18 07:55	02/01/18 22:36	1
4-Nitrophenol	1.2	U	9.4	1.2	ug/L		01/22/18 07:55	02/01/18 22:36	1
Dinoseb	3.8	U	19	3.8	ug/L		01/22/18 07:55	02/01/18 22:36	1
Pentachlorophenol	19	U	47	19	ug/L		01/22/18 07:55	02/01/18 22:36	1
Phenol	1.9	U	9.4	1.9	ug/L		01/22/18 07:55	02/01/18 22:36	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Cyclohexane	*15*	*N J*	*ug/L*		*1.88*	*110-82-7*	*01/22/18 07:55*	*02/01/18 22:36*	*1*
Unknown	*40*	*N*	*ug/L*		*1.96*		*01/22/18 07:55*	*02/01/18 22:36*	*1*
1,4-Dioxane	*1.7*	*J*	*ug/L*		*2.16*	*123-91-1*	*01/22/18 07:55*	*02/01/18 22:36*	*1*
Unknown	*4.5*	*N*	*ug/L*		*2.34*		*01/22/18 07:55*	*02/01/18 22:36*	*1*
Unknown	*37*	*N*	*ug/L*		*3.21*		*01/22/18 07:55*	*02/01/18 22:36*	*1*
Unknown	*11*	*N*	*ug/L*		*4.07*		*01/22/18 07:55*	*02/01/18 22:36*	*1*
1-Propene, 1,2,3-trichloro-, (Z)-	*28*	*N J*	*ug/L*		*4.12*	*13116-57-9*	*01/22/18 07:55*	*02/01/18 22:36*	*1*
Unknown	*5.6*	*N*	*ug/L*		*5.23*		*01/22/18 07:55*	*02/01/18 22:36*	*1*
Naphthalene	*0.27*	*J*	*ug/L*		*5.89*	*91-20-3*	*01/22/18 07:55*	*02/01/18 22:36*	*1*
2-Methylnaphthalene	*0.27*	*J*	*ug/L*		*6.57*	*91-57-6*	*01/22/18 07:55*	*02/01/18 22:36*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*82*		*42 - 131*	*01/22/18 07:55*	*02/01/18 22:36*	*1*
2-Fluorobiphenyl (Surr)	*82*		*48 - 120*	*01/22/18 07:55*	*02/01/18 22:36*	*1*
2-Fluorophenol (Surr)	*83*		*41 - 120*	*01/22/18 07:55*	*02/01/18 22:36*	*1*
Nitrobenzene-d5 (Surr)	*79*		*42 - 120*	*01/22/18 07:55*	*02/01/18 22:36*	*1*
Phenol-d5 (Surr)	*85*		*45 - 124*	*01/22/18 07:55*	*02/01/18 22:36*	*1*
Terphenyl-d14 (Surr)	*87*		*20 - 130*	*01/22/18 07:55*	*02/01/18 22:36*	*1*

Client Sample ID: B3FXL4 — **Lab Sample ID: 280-105586-24**
Date Collected: 01/15/18 12:32 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,6-Tetrachlorophenol	2.0	U	49	2.0	ug/L		01/22/18 07:55	02/01/18 23:05	1
2,4,5-Trichlorophenol	0.44	U	9.8	0.44	ug/L		01/22/18 07:55	02/01/18 23:05	1
2,4,6-Trichlorophenol	0.28	U	9.8	0.28	ug/L		01/22/18 07:55	02/01/18 23:05	1
2,4-Dichlorophenol	0.62	U	9.8	0.62	ug/L		01/22/18 07:55	02/01/18 23:05	1
2,4-Dimethylphenol	0.57	U o	9.8	0.57	ug/L		01/22/18 07:55	02/01/18 23:05	1
2,4-Dinitrophenol	9.8	U	29	9.8	ug/L		01/22/18 07:55	02/01/18 23:05	1
2,6-Dichlorophenol	1.3	U	9.8	1.3	ug/L		01/22/18 07:55	02/01/18 23:05	1
2-Chlorophenol	2.0	U	9.8	2.0	ug/L		01/22/18 07:55	02/01/18 23:05	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B3FXL4 — **Lab Sample ID: 280-105586-24**
Date Collected: 01/15/18 12:32 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	0.96	U	9.8	0.96	ug/L		01/22/18 07:55	02/01/18 23:05	1
2-Nitrophenol	0.38	U	9.8	0.38	ug/L		01/22/18 07:55	02/01/18 23:05	1
3 & 4 Methylphenol	0.24	U	9.8	0.24	ug/L		01/22/18 07:55	02/01/18 23:05	1
4,6-Dinitro-2-methylphenol	3.9	U	49	3.9	ug/L		01/22/18 07:55	02/01/18 23:05	1
4-Chloro-3-methylphenol	2.4	U	9.8	2.4	ug/L		01/22/18 07:55	02/01/18 23:05	1
4-Nitrophenol	1.2	U	9.8	1.2	ug/L		01/22/18 07:55	02/01/18 23:05	1
Dinoseb	3.9	U	20	3.9	ug/L		01/22/18 07:55	02/01/18 23:05	1
Pentachlorophenol	20	U	49	20	ug/L		01/22/18 07:55	02/01/18 23:05	1
Phenol	2.0	U	9.8	2.0	ug/L		01/22/18 07:55	02/01/18 23:05	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Cyclohexane	*18*	*N J*	*ug/L*		*1.89*	*110-82-7*	*01/22/18 07:55*	*02/01/18 23:05*	*1*
Unknown	*43*	*N*	*ug/L*		*1.96*		*01/22/18 07:55*	*02/01/18 23:05*	*1*
Unknown	*27*	*N*	*ug/L*		*3.21*		*01/22/18 07:55*	*02/01/18 23:05*	*1*
Unknown	*7.7*	*N*	*ug/L*		*4.07*		*01/22/18 07:55*	*02/01/18 23:05*	*1*
Unknown	*22*	*N*	*ug/L*		*4.12*		*01/22/18 07:55*	*02/01/18 23:05*	*1*
Unknown	*5.2*	*N*	*ug/L*		*5.23*		*01/22/18 07:55*	*02/01/18 23:05*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*75*		*42 - 131*	*01/22/18 07:55*	*02/01/18 23:05*	*1*
2-Fluorobiphenyl (Surr)	*80*		*48 - 120*	*01/22/18 07:55*	*02/01/18 23:05*	*1*
2-Fluorophenol (Surr)	*78*		*41 - 120*	*01/22/18 07:55*	*02/01/18 23:05*	*1*
Nitrobenzene-d5 (Surr)	*77*		*42 - 120*	*01/22/18 07:55*	*02/01/18 23:05*	*1*
Phenol-d5 (Surr)	*76*		*45 - 124*	*01/22/18 07:55*	*02/01/18 23:05*	*1*
Terphenyl-d14 (Surr)	*43*		*20 - 130*	*01/22/18 07:55*	*02/01/18 23:05*	*1*

Client Sample ID: B3FYH4 — **Lab Sample ID: 280-105586-25**
Date Collected: 01/15/18 11:04 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,6-Tetrachlorophenol	1.9	U	48	1.9	ug/L		01/22/18 07:55	02/02/18 00:30	1
2,4,5-Trichlorophenol	0.43	U	9.6	0.43	ug/L		01/22/18 07:55	02/02/18 00:30	1
2,4,6-Trichlorophenol	0.28	U	9.6	0.28	ug/L		01/22/18 07:55	02/02/18 00:30	1
2,4-Dichlorophenol	0.61	U	9.6	0.61	ug/L		01/22/18 07:55	02/02/18 00:30	1
2,4-Dimethylphenol	0.56	U o	9.6	0.56	ug/L		01/22/18 07:55	02/02/18 00:30	1
2,4-Dinitrophenol	9.6	U	29	9.6	ug/L		01/22/18 07:55	02/02/18 00:30	1
2,6-Dichlorophenol	1.3	U	9.6	1.3	ug/L		01/22/18 07:55	02/02/18 00:30	1
2-Chlorophenol	1.9	U	9.6	1.9	ug/L		01/22/18 07:55	02/02/18 00:30	1
2-Methylphenol	0.94	U	9.6	0.94	ug/L		01/22/18 07:55	02/02/18 00:30	1
2-Nitrophenol	0.37	U	9.6	0.37	ug/L		01/22/18 07:55	02/02/18 00:30	1
3 & 4 Methylphenol	**0.28**	**J**	9.6	0.24	ug/L		01/22/18 07:55	02/02/18 00:30	1
4,6-Dinitro-2-methylphenol	3.8	U	48	3.8	ug/L		01/22/18 07:55	02/02/18 00:30	1
4-Chloro-3-methylphenol	2.3	U	9.6	2.3	ug/L		01/22/18 07:55	02/02/18 00:30	1
4-Nitrophenol	1.2	U	9.6	1.2	ug/L		01/22/18 07:55	02/02/18 00:30	1
Dinoseb	3.8	U	19	3.8	ug/L		01/22/18 07:55	02/02/18 00:30	1
Pentachlorophenol	19	U	48	19	ug/L		01/22/18 07:55	02/02/18 00:30	1
Phenol	1.9	U	9.6	1.9	ug/L		01/22/18 07:55	02/02/18 00:30	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Cyclohexane	*21*	*N J*	*ug/L*		*1.89*	*110-82-7*	*01/22/18 07:55*	*02/02/18 00:30*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B3FYH4
Date Collected: 01/15/18 11:04
Date Received: 01/18/18 09:30

Lab Sample ID: 280-105586-25
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	49	N	ug/L		1.96		01/22/18 07:55	02/02/18 00:30	1
Unknown	10	N	ug/L		2.34		01/22/18 07:55	02/02/18 00:30	1
Unknown	44	N	ug/L		3.21		01/22/18 07:55	02/02/18 00:30	1
Unknown	13	N	ug/L		4.07		01/22/18 07:55	02/02/18 00:30	1
Unknown	34	N	ug/L		4.12		01/22/18 07:55	02/02/18 00:30	1
Benzyl alcohol	0.35	J	ug/L		4.76	100-51-6	01/22/18 07:55	02/02/18 00:30	1
2,2'-oxybis[1-chloropropane]	0.32	J	ug/L		4.88	108-60-1	01/22/18 07:55	02/02/18 00:30	1
Acetophenone	0.35	J	ug/L		5.01	98-86-2	01/22/18 07:55	02/02/18 00:30	1
Unknown	9.1	N	ug/L		5.23		01/22/18 07:55	02/02/18 00:30	1
Isophorone	0.31	J	ug/L		5.41	78-59-1	01/22/18 07:55	02/02/18 00:30	1
1,2,4-Trichlorobenzene	0.33	J	ug/L		5.82	120-82-1	01/22/18 07:55	02/02/18 00:30	1
Naphthalene	0.38	J	ug/L		5.89	91-20-3	01/22/18 07:55	02/02/18 00:30	1
2-Methylnaphthalene	0.32	J	ug/L		6.57	91-57-6	01/22/18 07:55	02/02/18 00:30	1
1-Methylnaphthalene	0.32	J	ug/L		6.67	90-12-0	01/22/18 07:55	02/02/18 00:30	1
Dimethyl phthalate	0.30	J	ug/L		7.32	131-11-3	01/22/18 07:55	02/02/18 00:30	1
Acenaphthene	0.33	J	ug/L		7.66	83-32-9	01/22/18 07:55	02/02/18 00:30	1
Dibenzofuran	0.31	J	ug/L		7.83	132-64-9	01/22/18 07:55	02/02/18 00:30	1
Fluorene	0.32	J	ug/L		8.17	86-73-7	01/22/18 07:55	02/02/18 00:30	1
Phenanthrene	0.35	J	ug/L		9.14	85-01-8	01/22/18 07:55	02/02/18 00:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		42 - 131	01/22/18 07:55	02/02/18 00:30	1
2-Fluorobiphenyl (Surr)	81		48 - 120	01/22/18 07:55	02/02/18 00:30	1
2-Fluorophenol (Surr)	83		41 - 120	01/22/18 07:55	02/02/18 00:30	1
Nitrobenzene-d5 (Surr)	79		42 - 120	01/22/18 07:55	02/02/18 00:30	1
Phenol-d5 (Surr)	85		45 - 124	01/22/18 07:55	02/02/18 00:30	1
Terphenyl-d14 (Surr)	87		20 - 130	01/22/18 07:55	02/02/18 00:30	1

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: B3FXM0
Date Collected: 01/16/18 08:48
Date Received: 01/18/18 09:30

Lab Sample ID: 280-105586-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0074	U	0.048	0.0074	ug/L		01/20/18 12:45	02/02/18 15:09	1
4,4'-DDE	0.0072	U	0.048	0.0072	ug/L		01/20/18 12:45	02/02/18 15:09	1
4,4'-DDT	0.014	U	0.048	0.014	ug/L		01/20/18 12:45	02/02/18 15:09	1
Aldrin	0.0057	U	0.048	0.0057	ug/L		01/20/18 12:45	02/02/18 15:09	1
alpha-BHC	0.0051	U	0.048	0.0051	ug/L		01/20/18 12:45	02/02/18 15:09	1
beta-BHC	0.0083	U	0.048	0.0083	ug/L		01/20/18 12:45	02/02/18 15:09	1
delta-BHC	0.0056	U	0.048	0.0056	ug/L		01/20/18 12:45	02/02/18 15:09	1
Dieldrin	0.0060	U	0.048	0.0060	ug/L		01/20/18 12:45	02/02/18 15:09	1
Endosulfan I	0.0056	U	0.048	0.0056	ug/L		01/20/18 12:45	02/02/18 15:09	1
Endosulfan II	0.0067	U	0.048	0.0067	ug/L		01/20/18 12:45	02/02/18 15:09	1
Endosulfan sulfate	0.0055	U	0.048	0.0055	ug/L		01/20/18 12:45	02/02/18 15:09	1
Endrin	0.0076	U	0.048	0.0076	ug/L		01/20/18 12:45	02/02/18 15:09	1
Endrin aldehyde	0.0084	U	0.048	0.0084	ug/L		01/20/18 12:45	02/02/18 15:09	1
gamma-BHC (Lindane)	0.0066	U	0.048	0.0066	ug/L		01/20/18 12:45	02/02/18 15:09	1
Heptachlor epoxide	0.0072	U	0.048	0.0072	ug/L		01/20/18 12:45	02/02/18 15:09	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B3FXM0 — **Lab Sample ID: 280-105586-11**
Date Collected: 01/16/18 08:48 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	0.012	U	0.096	0.012	ug/L		01/20/18 12:45	02/02/18 15:09	1
Toxaphene	0.35	U	1.9	0.35	ug/L		01/20/18 12:45	02/02/18 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*96*		*34 - 122*	*01/20/18 12:45*	*02/02/18 15:09*	*1*
Tetrachloro-m-xylene	*100*		*28 - 115*	*01/20/18 12:45*	*02/02/18 15:09*	*1*

Client Sample ID: B3FXM4 — **Lab Sample ID: 280-105586-15**
Date Collected: 01/16/18 07:30 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0074	U	0.048	0.0074	ug/L		01/20/18 12:45	02/02/18 15:27	1
alpha-Chlordane	0.0051	U	0.048	0.0051	ug/L		01/20/18 12:45	02/02/18 15:27	1
4,4'-DDE	0.0072	U	0.048	0.0072	ug/L		01/20/18 12:45	02/02/18 15:27	1
4,4'-DDT	0.014	U	0.048	0.014	ug/L		01/20/18 12:45	02/02/18 15:27	1
Endrin ketone	0.0067	U	0.048	0.0067	ug/L		01/20/18 12:45	02/02/18 15:27	1
Aldrin	0.0057	U	0.048	0.0057	ug/L		01/20/18 12:45	02/02/18 15:27	1
gamma-Chlordane	0.0088	U	0.048	0.0088	ug/L		01/20/18 12:45	02/02/18 15:27	1
alpha-BHC	0.0051	U	0.048	0.0051	ug/L		01/20/18 12:45	02/02/18 15:27	1
Heptachlor	0.0074	U	0.048	0.0074	ug/L		01/20/18 12:45	02/02/18 15:27	1
beta-BHC	0.0084	U	0.048	0.0084	ug/L		01/20/18 12:45	02/02/18 15:27	1
delta-BHC	0.0056	U	0.048	0.0056	ug/L		01/20/18 12:45	02/02/18 15:27	1
Dieldrin	0.0061	U	0.048	0.0061	ug/L		01/20/18 12:45	02/02/18 15:27	1
Endosulfan I	0.0056	U	0.048	0.0056	ug/L		01/20/18 12:45	02/02/18 15:27	1
Endosulfan II	0.0067	U	0.048	0.0067	ug/L		01/20/18 12:45	02/02/18 15:27	1
Endosulfan sulfate	0.0055	U	0.048	0.0055	ug/L		01/20/18 12:45	02/02/18 15:27	1
Endrin	0.0076	U	0.048	0.0076	ug/L		01/20/18 12:45	02/02/18 15:27	1
Endrin aldehyde	0.0085	U	0.048	0.0085	ug/L		01/20/18 12:45	02/02/18 15:27	1
gamma-BHC (Lindane)	0.0066	U	0.048	0.0066	ug/L		01/20/18 12:45	02/02/18 15:27	1
Heptachlor epoxide	0.0072	U	0.048	0.0072	ug/L		01/20/18 12:45	02/02/18 15:27	1
Methoxychlor	0.013	U	0.096	0.013	ug/L		01/20/18 12:45	02/02/18 15:27	1
Toxaphene	0.35	U	1.9	0.35	ug/L		01/20/18 12:45	02/02/18 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*98*		*34 - 122*	*01/20/18 12:45*	*02/02/18 15:27*	*1*
Tetrachloro-m-xylene	*88*		*28 - 115*	*01/20/18 12:45*	*02/02/18 15:27*	*1*
Decachlorobiphenyl	*98*		*34 - 122*	*01/20/18 12:45*	*02/02/18 15:27*	*1*
Tetrachloro-m-xylene	*88*		*28 - 115*	*01/20/18 12:45*	*02/02/18 15:27*	*1*

Client Sample ID: B3FXM3 — **Lab Sample ID: 280-105586-16**
Date Collected: 01/16/18 09:54 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0074	U	0.048	0.0074	ug/L		01/20/18 12:45	02/02/18 15:44	1
alpha-Chlordane	0.0051	U	0.048	0.0051	ug/L		01/20/18 12:45	02/02/18 15:44	1
4,4'-DDE	0.0072	U	0.048	0.0072	ug/L		01/20/18 12:45	02/02/18 15:44	1
4,4'-DDT	0.014	U	0.048	0.014	ug/L		01/20/18 12:45	02/02/18 15:44	1
Endrin ketone	0.0067	U	0.048	0.0067	ug/L		01/20/18 12:45	02/02/18 15:44	1
Aldrin	0.0056	U	0.048	0.0056	ug/L		01/20/18 12:45	02/02/18 15:44	1
gamma-Chlordane	0.0087	U	0.048	0.0087	ug/L		01/20/18 12:45	02/02/18 15:44	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B3FXM3 **Lab Sample ID: 280-105586-16**
Date Collected: 01/16/18 09:54 **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	0.0051	U	0.048	0.0051	ug/L		01/20/18 12:45	02/02/18 15:44	1
Heptachlor	0.0074	U	0.048	0.0074	ug/L		01/20/18 12:45	02/02/18 15:44	1
beta-BHC	0.0083	U	0.048	0.0083	ug/L		01/20/18 12:45	02/02/18 15:44	1
delta-BHC	0.0055	U	0.048	0.0055	ug/L		01/20/18 12:45	02/02/18 15:44	1
Dieldrin	0.0060	U	0.048	0.0060	ug/L		01/20/18 12:45	02/02/18 15:44	1
Endosulfan I	0.0055	U	0.048	0.0055	ug/L		01/20/18 12:45	02/02/18 15:44	1
Endosulfan II	0.0067	U	0.048	0.0067	ug/L		01/20/18 12:45	02/02/18 15:44	1
Endosulfan sulfate	0.0054	U	0.048	0.0054	ug/L		01/20/18 12:45	02/02/18 15:44	1
Endrin	0.0076	U	0.048	0.0076	ug/L		01/20/18 12:45	02/02/18 15:44	1
Endrin aldehyde	0.0084	U	0.048	0.0084	ug/L		01/20/18 12:45	02/02/18 15:44	1
gamma-BHC (Lindane)	0.0066	U	0.048	0.0066	ug/L		01/20/18 12:45	02/02/18 15:44	1
Heptachlor epoxide	0.0072	U	0.048	0.0072	ug/L		01/20/18 12:45	02/02/18 15:44	1
Methoxychlor	0.012	U	0.096	0.012	ug/L		01/20/18 12:45	02/02/18 15:44	1
Toxaphene	0.35	U	1.9	0.35	ug/L		01/20/18 12:45	02/02/18 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*101*		*34 - 122*	*01/20/18 12:45*	*02/02/18 15:44*	*1*
Tetrachloro-m-xylene	*104*		*28 - 115*	*01/20/18 12:45*	*02/02/18 15:44*	*1*
Decachlorobiphenyl	*101*		*34 - 122*	*01/20/18 12:45*	*02/02/18 15:44*	*1*
Tetrachloro-m-xylene	*104*		*28 - 115*	*01/20/18 12:45*	*02/02/18 15:44*	*1*

Client Sample ID: B3FXD2 **Lab Sample ID: 280-105586-26**
Date Collected: 01/15/18 09:03 **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0073	U	0.048	0.0073	ug/L		01/20/18 12:45	02/02/18 16:02	1
alpha-Chlordane	0.0050	U	0.048	0.0050	ug/L		01/20/18 12:45	02/02/18 16:02	1
4,4'-DDE	0.0071	U	0.048	0.0071	ug/L		01/20/18 12:45	02/02/18 16:02	1
4,4'-DDT	0.014	U	0.048	0.014	ug/L		01/20/18 12:45	02/02/18 16:02	1
Endrin ketone	0.0067	U	0.048	0.0067	ug/L		01/20/18 12:45	02/02/18 16:02	1
Aldrin	0.0056	U	0.048	0.0056	ug/L		01/20/18 12:45	02/02/18 16:02	1
gamma-Chlordane	0.0087	U	0.048	0.0087	ug/L		01/20/18 12:45	02/02/18 16:02	1
alpha-BHC	0.0050	U	0.048	0.0050	ug/L		01/20/18 12:45	02/02/18 16:02	1
Heptachlor	0.0073	U	0.048	0.0073	ug/L		01/20/18 12:45	02/02/18 16:02	1
beta-BHC	0.0083	U	0.048	0.0083	ug/L		01/20/18 12:45	02/02/18 16:02	1
delta-BHC	0.0055	U	0.048	0.0055	ug/L		01/20/18 12:45	02/02/18 16:02	1
Dieldrin	0.0060	U	0.048	0.0060	ug/L		01/20/18 12:45	02/02/18 16:02	1
Endosulfan I	0.0055	U	0.048	0.0055	ug/L		01/20/18 12:45	02/02/18 16:02	1
Endosulfan II	0.0067	U	0.048	0.0067	ug/L		01/20/18 12:45	02/02/18 16:02	1
Endosulfan sulfate	0.0054	U	0.048	0.0054	ug/L		01/20/18 12:45	02/02/18 16:02	1
Endrin	0.0075	U	0.048	0.0075	ug/L		01/20/18 12:45	02/02/18 16:02	1
Endrin aldehyde	0.0084	U	0.048	0.0084	ug/L		01/20/18 12:45	02/02/18 16:02	1
gamma-BHC (Lindane)	0.0066	U	0.048	0.0066	ug/L		01/20/18 12:45	02/02/18 16:02	1
Heptachlor epoxide	0.0071	U	0.048	0.0071	ug/L		01/20/18 12:45	02/02/18 16:02	1
Methoxychlor	0.012	U	0.095	0.012	ug/L		01/20/18 12:45	02/02/18 16:02	1
Toxaphene	0.35	U	1.9	0.35	ug/L		01/20/18 12:45	02/02/18 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*102*		*34 - 122*	*01/20/18 12:45*	*02/02/18 16:02*	*1*
Tetrachloro-m-xylene	*92*		*28 - 115*	*01/20/18 12:45*	*02/02/18 16:02*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B3FXD2 — **Lab Sample ID: 280-105586-26**
Date Collected: 01/15/18 09:03 — **Matrix: Water**
Date Received: 01/18/18 09:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Decachlorobiphenyl	102		34 - 122	01/20/18 12:45	02/02/18 16:02	1
Tetrachloro-m-xylene	92		28 - 115	01/20/18 12:45	02/02/18 16:02	1

Client Sample ID: B3FXD3 — **Lab Sample ID: 280-105586-29**
Date Collected: 01/17/18 08:45 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0073	U	0.048	0.0073	ug/L		01/20/18 12:45	02/02/18 16:54	1
alpha-Chlordane	0.0050	U	0.048	0.0050	ug/L		01/20/18 12:45	02/02/18 16:54	1
4,4'-DDE	0.0071	U	0.048	0.0071	ug/L		01/20/18 12:45	02/02/18 16:54	1
4,4'-DDT	0.014	U	0.048	0.014	ug/L		01/20/18 12:45	02/02/18 16:54	1
Endrin ketone	0.0067	U	0.048	0.0067	ug/L		01/20/18 12:45	02/02/18 16:54	1
Aldrin	0.0056	U	0.048	0.0056	ug/L		01/20/18 12:45	02/02/18 16:54	1
gamma-Chlordane	0.0087	U	0.048	0.0087	ug/L		01/20/18 12:45	02/02/18 16:54	1
alpha-BHC	0.0050	U	0.048	0.0050	ug/L		01/20/18 12:45	02/02/18 16:54	1
Heptachlor	0.0073	U	0.048	0.0073	ug/L		01/20/18 12:45	02/02/18 16:54	1
beta-BHC	0.0083	U	0.048	0.0083	ug/L		01/20/18 12:45	02/02/18 16:54	1
delta-BHC	0.0055	U	0.048	0.0055	ug/L		01/20/18 12:45	02/02/18 16:54	1
Dieldrin	0.0060	U	0.048	0.0060	ug/L		01/20/18 12:45	02/02/18 16:54	1
Endosulfan I	0.0055	U	0.048	0.0055	ug/L		01/20/18 12:45	02/02/18 16:54	1
Endosulfan II	0.0067	U	0.048	0.0067	ug/L		01/20/18 12:45	02/02/18 16:54	1
Endosulfan sulfate	0.0054	U	0.048	0.0054	ug/L		01/20/18 12:45	02/02/18 16:54	1
Endrin	0.0075	U	0.048	0.0075	ug/L		01/20/18 12:45	02/02/18 16:54	1
Endrin aldehyde	0.0084	U	0.048	0.0084	ug/L		01/20/18 12:45	02/02/18 16:54	1
gamma-BHC (Lindane)	0.0066	U	0.048	0.0066	ug/L		01/20/18 12:45	02/02/18 16:54	1
Heptachlor epoxide	0.0071	U	0.048	0.0071	ug/L		01/20/18 12:45	02/02/18 16:54	1
Methoxychlor	0.012	U	0.095	0.012	ug/L		01/20/18 12:45	02/02/18 16:54	1
Toxaphene	0.35	U	1.9	0.35	ug/L		01/20/18 12:45	02/02/18 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Decachlorobiphenyl	104		34 - 122	01/20/18 12:45	02/02/18 16:54	1
Tetrachloro-m-xylene	102		28 - 115	01/20/18 12:45	02/02/18 16:54	1
Decachlorobiphenyl	104		34 - 122	01/20/18 12:45	02/02/18 16:54	1
Tetrachloro-m-xylene	102		28 - 115	01/20/18 12:45	02/02/18 16:54	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: B3FXD2 — **Lab Sample ID: 280-105586-26**
Date Collected: 01/15/18 09:03 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.12	U	0.95	0.12	ug/L		01/20/18 12:45	02/01/18 16:35	1
Aroclor 1221	0.20	U	0.95	0.20	ug/L		01/20/18 12:45	02/01/18 16:35	1
Aroclor 1232	0.16	U	0.95	0.16	ug/L		01/20/18 12:45	02/01/18 16:35	1
Aroclor 1242	0.099	U	0.95	0.099	ug/L		01/20/18 12:45	02/01/18 16:35	1
Aroclor 1248	0.087	U	0.95	0.087	ug/L		01/20/18 12:45	02/01/18 16:35	1
Aroclor 1254	0.11	U	0.95	0.11	ug/L		01/20/18 12:45	02/01/18 16:35	1
Aroclor 1260	0.15	U	0.95	0.15	ug/L		01/20/18 12:45	02/01/18 16:35	1
Aroclor 1262	0.080	U	0.95	0.080	ug/L		01/20/18 12:45	02/01/18 16:35	1
Aroclor 1268	0.35	U	0.95	0.35	ug/L		01/20/18 12:45	02/01/18 16:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Decachlorobiphenyl	103		30 - 136	01/20/18 12:45	02/01/18 16:35	1
Tetrachloro-m-xylene	92		25 - 120	01/20/18 12:45	02/01/18 16:35	1

Client Sample ID: B3FXD3 — **Lab Sample ID: 280-105586-29**
Date Collected: 01/17/18 08:45 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.12	U	0.95	0.12	ug/L		01/20/18 12:45	02/01/18 17:40	1
Aroclor 1221	0.20	U	0.95	0.20	ug/L		01/20/18 12:45	02/01/18 17:40	1
Aroclor 1232	0.16	U	0.95	0.16	ug/L		01/20/18 12:45	02/01/18 17:40	1
Aroclor 1242	0.099	U	0.95	0.099	ug/L		01/20/18 12:45	02/01/18 17:40	1
Aroclor 1248	0.087	U	0.95	0.087	ug/L		01/20/18 12:45	02/01/18 17:40	1
Aroclor 1254	0.11	U	0.95	0.11	ug/L		01/20/18 12:45	02/01/18 17:40	1
Aroclor 1260	0.15	U	0.95	0.15	ug/L		01/20/18 12:45	02/01/18 17:40	1
Aroclor 1262	0.080	U	0.95	0.080	ug/L		01/20/18 12:45	02/01/18 17:40	1
Aroclor 1268	0.35	U	0.95	0.35	ug/L		01/20/18 12:45	02/01/18 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Decachlorobiphenyl	103		30 - 136	01/20/18 12:45	02/01/18 17:40	1
Tetrachloro-m-xylene	90		25 - 120	01/20/18 12:45	02/01/18 17:40	1

Method: 8151A - Herbicides (GC)

Client Sample ID: B3FXM0 — **Lab Sample ID: 280-105586-11**
Date Collected: 01/16/18 08:48 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.18	U o y	0.96	0.18	ug/L		01/19/18 16:10	02/15/18 05:12	1
2,4-D	0.20	U o y	3.9	0.20	ug/L		01/19/18 16:10	02/15/18 05:12	1
2,4-DB	0.35	U o y	3.9	0.35	ug/L		01/19/18 16:10	02/15/18 05:12	1
Dalapon	0.88	U o y	1.9	0.88	ug/L		01/19/18 16:10	02/15/18 05:12	1
Dicamba	0.14	U o y	1.9	0.14	ug/L		01/19/18 16:10	02/15/18 05:12	1
Dichlorprop	0.63	U o y	3.9	0.63	ug/L		01/19/18 16:10	02/15/18 05:12	1
Dinoseb	0.43	U o y	0.96	0.43	ug/L		01/19/18 16:10	02/15/18 05:12	1
MCPA	16	U o y	390	16	ug/L		01/19/18 16:10	02/15/18 05:12	1
MCPP	32	U o y	390	32	ug/L		01/19/18 16:10	02/15/18 05:12	1
Silvex (2,4,5-TP)	0.16	U o y	0.96	0.16	ug/L		01/19/18 16:10	02/15/18 05:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	83		39 - 135	01/19/18 16:10	02/15/18 05:12	1

Client Sample ID: B3FXN9 — **Lab Sample ID: 280-105586-14**
Date Collected: 01/16/18 10:15 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.18	U o y	0.96	0.18	ug/L		01/19/18 16:10	02/15/18 05:40	1
2,4-D	0.20	U o y	3.8	0.20	ug/L		01/19/18 16:10	02/15/18 05:40	1
2,4-DB	0.34	U o y	3.8	0.34	ug/L		01/19/18 16:10	02/15/18 05:40	1
Dalapon	0.87	U o y	1.9	0.87	ug/L		01/19/18 16:10	02/15/18 05:40	1
Dicamba	0.14	U o y	1.9	0.14	ug/L		01/19/18 16:10	02/15/18 05:40	1
Dichlorprop	0.62	U o y	3.8	0.62	ug/L		01/19/18 16:10	02/15/18 05:40	1
Dinoseb	0.43	U o y	0.96	0.43	ug/L		01/19/18 16:10	02/15/18 05:40	1
MCPA	16	U o y	380	16	ug/L		01/19/18 16:10	02/15/18 05:40	1
MCPP	32	U o y	380	32	ug/L		01/19/18 16:10	02/15/18 05:40	1
Silvex (2,4,5-TP)	0.16	U o y	0.96	0.16	ug/L		01/19/18 16:10	02/15/18 05:40	1

Method: 8151A - Herbicides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	79		39 - 135	01/19/18 16:10	02/15/18 05:40	1

Client Sample ID: B3FXP0 — **Lab Sample ID: 280-105586-19**
Date Collected: 01/15/18 09:57 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.18	U o y	0.94	0.18	ug/L		01/19/18 16:10	02/15/18 06:08	1
2,4-D	0.20	U o y	3.8	0.20	ug/L		01/19/18 16:10	02/15/18 06:08	1
2,4-DB	0.34	U o y	3.8	0.34	ug/L		01/19/18 16:10	02/15/18 06:08	1
Dalapon	0.86	U o y	1.9	0.86	ug/L		01/19/18 16:10	02/15/18 06:08	1
Dicamba	0.14	U o y	1.9	0.14	ug/L		01/19/18 16:10	02/15/18 06:08	1
Dichlorprop	0.61	U o y	3.8	0.61	ug/L		01/19/18 16:10	02/15/18 06:08	1
Dinoseb	0.42	U o y	0.94	0.42	ug/L		01/19/18 16:10	02/15/18 06:08	1
MCPA	16	U o y	380	16	ug/L		01/19/18 16:10	02/15/18 06:08	1
MCPP	31	U o y	380	31	ug/L		01/19/18 16:10	02/15/18 06:08	1
Silvex (2,4,5-TP)	0.16	U o y	0.94	0.16	ug/L		01/19/18 16:10	02/15/18 06:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	73		39 - 135	01/19/18 16:10	02/15/18 06:08	1

Client Sample ID: B3FXD2 — **Lab Sample ID: 280-105586-26**
Date Collected: 01/15/18 09:03 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.18	U o y	0.95	0.18	ug/L		01/19/18 16:10	02/15/18 06:37	1
2,4-D	0.20	U o y	3.8	0.20	ug/L		01/19/18 16:10	02/15/18 06:37	1
2,4-DB	0.34	U o y	3.8	0.34	ug/L		01/19/18 16:10	02/15/18 06:37	1
Dalapon	0.86	U o y	1.9	0.86	ug/L		01/19/18 16:10	02/15/18 06:37	1
Dicamba	0.14	U o y	1.9	0.14	ug/L		01/19/18 16:10	02/15/18 06:37	1
Dichlorprop	0.62	U o y	3.8	0.62	ug/L		01/19/18 16:10	02/15/18 06:37	1
Dinoseb	0.43	U o y	0.95	0.43	ug/L		01/19/18 16:10	02/15/18 06:37	1
MCPA	16	U o y	380	16	ug/L		01/19/18 16:10	02/15/18 06:37	1
MCPP	31	U o y	380	31	ug/L		01/19/18 16:10	02/15/18 06:37	1
Silvex (2,4,5-TP)	0.16	U o y	0.95	0.16	ug/L		01/19/18 16:10	02/15/18 06:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	75		39 - 135	01/19/18 16:10	02/15/18 06:37	1

Client Sample ID: B3FXD3 — **Lab Sample ID: 280-105586-29**
Date Collected: 01/17/18 08:45 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.18	U o y	0.95	0.18	ug/L		01/19/18 16:10	02/15/18 08:02	1
2,4-D	0.20	U o y	3.8	0.20	ug/L		01/19/18 16:10	02/15/18 08:02	1
2,4-DB	0.34	U o y	3.8	0.34	ug/L		01/19/18 16:10	02/15/18 08:02	1
Dalapon	0.87	U o y	1.9	0.87	ug/L		01/19/18 16:10	02/15/18 08:02	1
Dicamba	0.14	U o y	1.9	0.14	ug/L		01/19/18 16:10	02/15/18 08:02	1
Dichlorprop	0.62	U o y	3.8	0.62	ug/L		01/19/18 16:10	02/15/18 08:02	1
Dinoseb	0.43	U o y	0.95	0.43	ug/L		01/19/18 16:10	02/15/18 08:02	1
MCPA	16	U o y	380	16	ug/L		01/19/18 16:10	02/15/18 08:02	1
MCPP	31	U o y	380	31	ug/L		01/19/18 16:10	02/15/18 08:02	1
Silvex (2,4,5-TP)	0.16	U o y	0.95	0.16	ug/L		01/19/18 16:10	02/15/18 08:02	1

Method: 8151A - Herbicides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	0.1	X	39 - 135	01/19/18 16:10	02/15/18 08:02	1

Method: 6010D - Metals (ICP)

Client Sample ID: B3FRN5 — **Lab Sample ID: 280-105586-1**
Date Collected: 01/16/18 12:29 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.2	U	20.0	5.2	ug/L		01/23/18 07:34	01/23/18 20:56	1
Arsenic	4.4	U	15.0	4.4	ug/L		01/23/18 07:34	01/23/18 20:56	1
Barium	**46.7**		10.0	0.82	ug/L		01/23/18 07:34	01/23/18 20:56	1
Cadmium	**0.51**	**B**	5.0	0.45	ug/L		01/23/18 07:34	01/23/18 20:56	1
Calcium	**38000**		200	34.5	ug/L		01/23/18 07:34	01/23/18 20:56	1
Chromium	**8.6**	**B**	10.0	0.66	ug/L		01/23/18 07:34	01/23/18 20:56	1
Cobalt	1.2	U	10.0	1.2	ug/L		01/23/18 07:34	01/23/18 20:56	1
Copper	4.2	U	15.0	4.2	ug/L		01/23/18 07:34	01/23/18 20:56	1
Iron	**379**		100	22.0	ug/L		01/23/18 07:34	01/23/18 20:56	1
Magnesium	**12500**		200	10.7	ug/L		01/23/18 07:34	01/23/18 20:56	1
Manganese	**10.7**		10.0	0.26	ug/L		01/23/18 07:34	01/23/18 20:56	1
Nickel	2.6	U	40.0	2.6	ug/L		01/23/18 07:34	01/23/18 20:56	1
Potassium	**4210**		3000	237	ug/L		01/23/18 07:34	01/23/18 20:56	1
Silver	0.93	U	10.0	0.93	ug/L		01/23/18 07:34	01/23/18 20:56	1
Sodium	**22300**		1000	117	ug/L		01/23/18 07:34	01/24/18 15:27	1
Vanadium	**22.9**		10.0	1.1	ug/L		01/23/18 07:34	01/23/18 20:56	1
Zinc	4.5	U	20.0	4.5	ug/L		01/23/18 07:34	01/23/18 20:56	1

Client Sample ID: B3FVC0 — **Lab Sample ID: 280-105586-4**
Date Collected: 01/16/18 11:53 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.2	U	20.0	5.2	ug/L		01/23/18 07:34	01/23/18 20:59	1
Arsenic	**4.6**	**B**	15.0	4.4	ug/L		01/23/18 07:34	01/23/18 20:59	1
Barium	**41.4**		10.0	0.82	ug/L		01/23/18 07:34	01/23/18 20:59	1
Cadmium	0.45	U	5.0	0.45	ug/L		01/23/18 07:34	01/23/18 20:59	1
Calcium	**33800**		200	34.5	ug/L		01/23/18 07:34	01/23/18 20:59	1
Chromium	**6.4**	**B**	10.0	0.66	ug/L		01/23/18 07:34	01/23/18 20:59	1
Cobalt	1.2	U	10.0	1.2	ug/L		01/23/18 07:34	01/23/18 20:59	1
Copper	4.2	U	15.0	4.2	ug/L		01/23/18 07:34	01/23/18 20:59	1
Iron	**95.4**	**B**	100	22.0	ug/L		01/23/18 07:34	01/23/18 20:59	1
Magnesium	**11300**		200	10.7	ug/L		01/23/18 07:34	01/23/18 20:59	1
Manganese	**3.2**	**B**	10.0	0.26	ug/L		01/23/18 07:34	01/23/18 20:59	1
Nickel	2.6	U	40.0	2.6	ug/L		01/23/18 07:34	01/23/18 20:59	1
Potassium	**3950**		3000	237	ug/L		01/23/18 07:34	01/23/18 20:59	1
Silver	0.93	U	10.0	0.93	ug/L		01/23/18 07:34	01/23/18 20:59	1
Sodium	**23000**		1000	117	ug/L		01/23/18 07:34	01/24/18 15:29	1
Vanadium	**21.2**		10.0	1.1	ug/L		01/23/18 07:34	01/23/18 20:59	1
Zinc	4.5	U	20.0	4.5	ug/L		01/23/18 07:34	01/23/18 20:59	1

Client Sample ID: B3FV92 — **Lab Sample ID: 280-105586-5**
Date Collected: 01/16/18 11:24 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.2	U	20.0	5.2	ug/L		01/23/18 07:34	01/23/18 21:01	1

Method: 6010D - Metals (ICP) (Continued)

Client Sample ID: B3FV92 — **Lab Sample ID: 280-105586-5**
Date Collected: 01/16/18 11:24 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.4	U	15.0	4.4	ug/L		01/23/18 07:34	01/23/18 21:01	1
Barium	42.3		10.0	0.82	ug/L		01/23/18 07:34	01/23/18 21:01	1
Cadmium	0.68	B	5.0	0.45	ug/L		01/23/18 07:34	01/23/18 21:01	1
Calcium	33700		200	34.5	ug/L		01/23/18 07:34	01/23/18 21:01	1
Chromium	19.8		10.0	0.66	ug/L		01/23/18 07:34	01/23/18 21:01	1
Cobalt	1.2	U	10.0	1.2	ug/L		01/23/18 07:34	01/23/18 21:01	1
Copper	4.2	U	15.0	4.2	ug/L		01/23/18 07:34	01/23/18 21:01	1
Iron	158		100	22.0	ug/L		01/23/18 07:34	01/23/18 21:01	1
Magnesium	11300		200	10.7	ug/L		01/23/18 07:34	01/23/18 21:01	1
Manganese	7.9	B	10.0	0.26	ug/L		01/23/18 07:34	01/23/18 21:01	1
Nickel	8.4	B	40.0	2.6	ug/L		01/23/18 07:34	01/23/18 21:01	1
Potassium	4170		3000	237	ug/L		01/23/18 07:34	01/23/18 21:01	1
Silver	0.93	U	10.0	0.93	ug/L		01/23/18 07:34	01/23/18 21:01	1
Sodium	24900		1000	117	ug/L		01/23/18 07:34	01/24/18 15:32	1
Vanadium	24.5		10.0	1.1	ug/L		01/23/18 07:34	01/23/18 21:01	1
Zinc	4.5	U	20.0	4.5	ug/L		01/23/18 07:34	01/23/18 21:01	1

Client Sample ID: B3FXT5 — **Lab Sample ID: 280-105586-9**
Date Collected: 01/16/18 12:53 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	4.4	U	100	4.4	ug/L		01/23/18 07:34	01/23/18 21:23	1
Calcium	31600		200	34.5	ug/L		01/23/18 07:34	01/23/18 21:23	1
Iron	76.7	B	100	22.0	ug/L		01/23/18 07:34	01/23/18 21:23	1
Magnesium	8050		200	10.7	ug/L		01/23/18 07:34	01/23/18 21:23	1
Potassium	5170		3000	237	ug/L		01/23/18 07:34	01/23/18 21:23	1
Sodium	11500		1000	117	ug/L		01/23/18 07:34	01/24/18 15:55	1
Vanadium	23.8		10.0	1.1	ug/L		01/23/18 07:34	01/23/18 21:23	1

Client Sample ID: B3FXM0 — **Lab Sample ID: 280-105586-11**
Date Collected: 01/16/18 08:48 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	6.6	B	100	4.4	ug/L		01/23/18 07:34	01/23/18 21:26	1
Calcium	47700		200	34.5	ug/L		01/23/18 07:34	01/23/18 21:26	1
Iron	29.6	B	100	22.0	ug/L		01/23/18 07:34	01/23/18 21:26	1
Magnesium	13100		200	10.7	ug/L		01/23/18 07:34	01/23/18 21:26	1
Potassium	7850		3000	237	ug/L		01/23/18 07:34	01/23/18 21:26	1
Sodium	27800		1000	117	ug/L		01/23/18 07:34	01/24/18 15:57	1
Vanadium	26.8		10.0	1.1	ug/L		01/23/18 07:34	01/23/18 21:26	1

Client Sample ID: B3FYF7 — **Lab Sample ID: 280-105586-18**
Date Collected: 01/15/18 12:41 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.2	U	20.0	5.2	ug/L		01/23/18 07:34	01/23/18 21:28	1
Arsenic	6.3	B	15.0	4.4	ug/L		01/23/18 07:34	01/23/18 21:28	1
Barium	25.5		10.0	0.82	ug/L		01/23/18 07:34	01/23/18 21:28	1
Cadmium	0.45	U	5.0	0.45	ug/L		01/23/18 07:34	01/23/18 21:28	1
Calcium	25600		200	34.5	ug/L		01/23/18 07:34	01/23/18 21:28	1

Method: 6010D - Metals (ICP) (Continued)

Client Sample ID: B3FYF7 — **Lab Sample ID: 280-105586-18**
Date Collected: 01/15/18 12:41 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	4.0	B	10.0	0.66	ug/L		01/23/18 07:34	01/23/18 21:28	1
Cobalt	1.2	U	10.0	1.2	ug/L		01/23/18 07:34	01/23/18 21:28	1
Copper	4.2	U	15.0	4.2	ug/L		01/23/18 07:34	01/23/18 21:28	1
Iron	72.4	B	100	22.0	ug/L		01/23/18 07:34	01/23/18 21:28	1
Magnesium	8740		200	10.7	ug/L		01/23/18 07:34	01/23/18 21:28	1
Manganese	1.5	B	10.0	0.26	ug/L		01/23/18 07:34	01/23/18 21:28	1
Nickel	2.6	U	40.0	2.6	ug/L		01/23/18 07:34	01/23/18 21:28	1
Potassium	4860		3000	237	ug/L		01/23/18 07:34	01/23/18 21:28	1
Silver	0.93	U	10.0	0.93	ug/L		01/23/18 07:34	01/23/18 21:28	1
Sodium	20400		1000	117	ug/L		01/23/18 07:34	01/24/18 16:00	1
Vanadium	28.9		10.0	1.1	ug/L		01/23/18 07:34	01/23/18 21:28	1
Zinc	5.9	B	20.0	4.5	ug/L		01/23/18 07:34	01/23/18 21:28	1

Client Sample ID: B3FXP0 — **Lab Sample ID: 280-105586-19**
Date Collected: 01/15/18 09:57 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	6.5	B	100	4.4	ug/L		01/23/18 07:34	01/23/18 21:31	1
Calcium	50400		200	34.5	ug/L		01/23/18 07:34	01/23/18 21:31	1
Iron	22.0	U	100	22.0	ug/L		01/23/18 07:34	01/23/18 21:31	1
Magnesium	14600		200	10.7	ug/L		01/23/18 07:34	01/23/18 21:31	1
Potassium	7590		3000	237	ug/L		01/23/18 07:34	01/23/18 21:31	1
Sodium	17400		1000	117	ug/L		01/23/18 07:34	01/24/18 16:02	1
Vanadium	19.2		10.0	1.1	ug/L		01/23/18 07:34	01/23/18 21:31	1

Client Sample ID: B3FYH3 — **Lab Sample ID: 280-105586-22**
Date Collected: 01/15/18 09:32 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	7.2	B	100	4.4	ug/L		01/23/18 07:34	01/23/18 21:33	1
Calcium	21800		200	34.5	ug/L		01/23/18 07:34	01/23/18 21:33	1
Iron	50.3	B	100	22.0	ug/L		01/23/18 07:34	01/23/18 21:33	1
Magnesium	9190		200	10.7	ug/L		01/23/18 07:34	01/23/18 21:33	1
Potassium	4640		3000	237	ug/L		01/23/18 07:34	01/23/18 21:33	1
Sodium	20900		1000	117	ug/L		01/23/18 07:34	01/24/18 16:05	1
Vanadium	27.8		10.0	1.1	ug/L		01/23/18 07:34	01/23/18 21:33	1

Client Sample ID: B3FV55 — **Lab Sample ID: 280-105586-28**
Date Collected: 01/17/18 09:03 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	4.4	U	100	4.4	ug/L		01/23/18 07:34	01/23/18 21:38	1
Calcium	36300		200	34.5	ug/L		01/23/18 07:34	01/23/18 21:38	1
Iron	22.0	U	100	22.0	ug/L		01/23/18 07:34	01/23/18 21:38	1
Magnesium	9850		200	10.7	ug/L		01/23/18 07:34	01/23/18 21:38	1
Potassium	6320		3000	237	ug/L		01/23/18 07:34	01/23/18 21:38	1
Sodium	11100		1000	117	ug/L		01/23/18 07:34	01/24/18 16:10	1
Vanadium	19.8		10.0	1.1	ug/L		01/23/18 07:34	01/23/18 21:38	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-001

TestAmerica Job ID: 280-105586-1
SDG: DN0308

Method: 6010D - Metals (ICP) - Dissolved

Client Sample ID: B3FRN7
Date Collected: 01/16/18 12:29
Date Received: 01/18/18 09:30

Lab Sample ID: 280-105586-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.2	U	20.0	5.2	ug/L		01/23/18 07:34	01/23/18 20:12	1
Arsenic	4.4	U	15.0	4.4	ug/L		01/23/18 07:34	01/23/18 20:12	1
Barium	**48.1**		10.0	0.82	ug/L		01/23/18 07:34	01/23/18 20:12	1
Cadmium	0.45	U	5.0	0.45	ug/L		01/23/18 07:34	01/23/18 20:12	1
Calcium	**40100**		200	34.5	ug/L		01/23/18 07:34	01/23/18 20:12	1
Chromium	**8.1**	**B**	10.0	0.66	ug/L		01/23/18 07:34	01/23/18 20:12	1
Cobalt	1.2	U	10.0	1.2	ug/L		01/23/18 07:34	01/23/18 20:12	1
Copper	4.2	U	15.0	4.2	ug/L		01/23/18 07:34	01/23/18 20:12	1
Iron	**30.6**	**B**	100	22.0	ug/L		01/23/18 07:34	01/23/18 20:12	1
Magnesium	**13300**		200	10.7	ug/L		01/23/18 07:34	01/23/18 20:12	1
Manganese	**1.3**	**B**	10.0	0.26	ug/L		01/23/18 07:34	01/23/18 20:12	1
Nickel	2.6	U	40.0	2.6	ug/L		01/23/18 07:34	01/23/18 20:12	1
Potassium	**4500**		3000	237	ug/L		01/23/18 07:34	01/23/18 20:12	1
Silver	0.93	U	10.0	0.93	ug/L		01/23/18 07:34	01/23/18 20:12	1
Sodium	**24500**		1000	117	ug/L		01/23/18 07:34	01/24/18 14:41	1
Vanadium	**22.9**		10.0	1.1	ug/L		01/23/18 07:34	01/23/18 20:12	1
Zinc	4.5	U	20.0	4.5	ug/L		01/23/18 07:34	01/23/18 20:12	1

Client Sample ID: B3FVC2
Date Collected: 01/16/18 11:53
Date Received: 01/18/18 09:30

Lab Sample ID: 280-105586-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.2	U	20.0	5.2	ug/L		01/23/18 07:34	01/23/18 20:14	1
Arsenic	4.4	U	15.0	4.4	ug/L		01/23/18 07:34	01/23/18 20:14	1
Barium	**43.3**		10.0	0.82	ug/L		01/23/18 07:34	01/23/18 20:14	1
Cadmium	0.45	U	5.0	0.45	ug/L		01/23/18 07:34	01/23/18 20:14	1
Calcium	**35500**		200	34.5	ug/L		01/23/18 07:34	01/23/18 20:14	1
Chromium	**6.1**	**B**	10.0	0.66	ug/L		01/23/18 07:34	01/23/18 20:14	1
Cobalt	1.2	U	10.0	1.2	ug/L		01/23/18 07:34	01/23/18 20:14	1
Copper	4.2	U	15.0	4.2	ug/L		01/23/18 07:34	01/23/18 20:14	1
Iron	22.0	U	100	22.0	ug/L		01/23/18 07:34	01/23/18 20:14	1
Magnesium	**11900**		200	10.7	ug/L		01/23/18 07:34	01/23/18 20:14	1
Manganese	0.26	U	10.0	0.26	ug/L		01/23/18 07:34	01/23/18 20:14	1
Nickel	2.6	U	40.0	2.6	ug/L		01/23/18 07:34	01/23/18 20:14	1
Potassium	**4170**		3000	237	ug/L		01/23/18 07:34	01/23/18 20:14	1
Silver	0.93	U	10.0	0.93	ug/L		01/23/18 07:34	01/23/18 20:14	1
Sodium	**23900**		1000	117	ug/L		01/23/18 07:34	01/24/18 14:43	1
Vanadium	**22.6**		10.0	1.1	ug/L		01/23/18 07:34	01/23/18 20:14	1
Zinc	4.5	U	20.0	4.5	ug/L		01/23/18 07:34	01/23/18 20:14	1

Client Sample ID: B3FV96
Date Collected: 01/16/18 11:24
Date Received: 01/18/18 09:30

Lab Sample ID: 280-105586-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.2	U	20.0	5.2	ug/L		01/23/18 07:34	01/23/18 20:17	1
Arsenic	4.4	U	15.0	4.4	ug/L		01/23/18 07:34	01/23/18 20:17	1
Barium	**41.5**		10.0	0.82	ug/L		01/23/18 07:34	01/23/18 20:17	1
Cadmium	0.45	U	5.0	0.45	ug/L		01/23/18 07:34	01/23/18 20:17	1
Calcium	**33600**		200	34.5	ug/L		01/23/18 07:34	01/23/18 20:17	1
Chromium	**7.1**	**B**	10.0	0.66	ug/L		01/23/18 07:34	01/23/18 20:17	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-001

TestAmerica Job ID: 280-105586-1
SDG: DN0308

Method: 6010D - Metals (ICP) - Dissolved (Continued)

Client Sample ID: B3FV96 — **Lab Sample ID: 280-105586-6**
Date Collected: 01/16/18 11:24 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	1.2	U	10.0	1.2	ug/L		01/23/18 07:34	01/23/18 20:17	1
Copper	4.2	U	15.0	4.2	ug/L		01/23/18 07:34	01/23/18 20:17	1
Iron	22.0	U	100	22.0	ug/L		01/23/18 07:34	01/23/18 20:17	1
Magnesium	**11300**		200	10.7	ug/L		01/23/18 07:34	01/23/18 20:17	1
Manganese	**1.2**	**B**	10.0	0.26	ug/L		01/23/18 07:34	01/23/18 20:17	1
Nickel	2.6	U	40.0	2.6	ug/L		01/23/18 07:34	01/23/18 20:17	1
Potassium	**4170**		3000	237	ug/L		01/23/18 07:34	01/23/18 20:17	1
Silver	0.93	U	10.0	0.93	ug/L		01/23/18 07:34	01/23/18 20:17	1
Sodium	**26100**		1000	117	ug/L		01/23/18 07:34	01/24/18 14:46	1
Vanadium	**24.7**		10.0	1.1	ug/L		01/23/18 07:34	01/23/18 20:17	1
Zinc	4.5	U	20.0	4.5	ug/L		01/23/18 07:34	01/23/18 20:17	1

Client Sample ID: B3FTH2 — **Lab Sample ID: 280-105586-10**
Date Collected: 01/16/18 12:53 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**5.5**	**B**	100	4.4	ug/L		01/23/18 07:34	01/23/18 20:29	1
Calcium	**36500**		200	34.5	ug/L		01/23/18 07:34	01/23/18 20:29	1
Iron	22.0	U	100	22.0	ug/L		01/23/18 07:34	01/23/18 20:29	1
Magnesium	**9320**		200	10.7	ug/L		01/23/18 07:34	01/23/18 20:29	1
Potassium	**6050**		3000	237	ug/L		01/23/18 07:34	01/23/18 20:29	1
Sodium	**13300**		1000	117	ug/L		01/23/18 07:34	01/24/18 14:58	1
Vanadium	**27.8**		10.0	1.1	ug/L		01/23/18 07:34	01/23/18 20:29	1

Client Sample ID: B3FV72 — **Lab Sample ID: 280-105586-13**
Date Collected: 01/16/18 08:48 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**7.4**	**B**	100	4.4	ug/L		01/23/18 07:34	01/23/18 20:41	1
Calcium	**49100**		200	34.5	ug/L		01/23/18 07:34	01/23/18 20:41	1
Iron	22.0	U	100	22.0	ug/L		01/23/18 07:34	01/23/18 20:41	1
Magnesium	**13700**		200	10.7	ug/L		01/23/18 07:34	01/23/18 20:41	1
Potassium	**8050**		3000	237	ug/L		01/23/18 07:34	01/23/18 20:41	1
Sodium	**27500**		1000	117	ug/L		01/23/18 07:34	01/24/18 15:11	1
Vanadium	**27.4**		10.0	1.1	ug/L		01/23/18 07:34	01/23/18 20:41	1

Client Sample ID: B3FR99 — **Lab Sample ID: 280-105586-17**
Date Collected: 01/15/18 12:41 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.2	U	20.0	5.2	ug/L		01/23/18 07:34	01/23/18 20:44	1
Arsenic	**5.9**	**B**	15.0	4.4	ug/L		01/23/18 07:34	01/23/18 20:44	1
Barium	**23.5**		10.0	0.82	ug/L		01/23/18 07:34	01/23/18 20:44	1
Cadmium	0.45	U	5.0	0.45	ug/L		01/23/18 07:34	01/23/18 20:44	1
Calcium	**23900**		200	34.5	ug/L		01/23/18 07:34	01/23/18 20:44	1
Chromium	**2.5**	**B**	10.0	0.66	ug/L		01/23/18 07:34	01/23/18 20:44	1
Cobalt	1.2	U	10.0	1.2	ug/L		01/23/18 07:34	01/23/18 20:44	1
Copper	4.2	U	15.0	4.2	ug/L		01/23/18 07:34	01/23/18 20:44	1
Iron	**26.9**	**B**	100	22.0	ug/L		01/23/18 07:34	01/23/18 20:44	1
Magnesium	**8350**		200	10.7	ug/L		01/23/18 07:34	01/23/18 20:44	1

Method: 6010D - Metals (ICP) - Dissolved (Continued)

Client Sample ID: B3FR99 — **Lab Sample ID: 280-105586-17**
Date Collected: 01/15/18 12:41 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.1	B	10.0	0.26	ug/L		01/23/18 07:34	01/23/18 20:44	1
Nickel	2.6	U	40.0	2.6	ug/L		01/23/18 07:34	01/23/18 20:44	1
Potassium	4530		3000	237	ug/L		01/23/18 07:34	01/23/18 20:44	1
Silver	0.93	U	10.0	0.93	ug/L		01/23/18 07:34	01/23/18 20:44	1
Sodium	19900		1000	117	ug/L		01/23/18 07:34	01/24/18 15:14	1
Vanadium	26.0		10.0	1.1	ug/L		01/23/18 07:34	01/23/18 20:44	1
Zinc	4.6	B	20.0	4.5	ug/L		01/23/18 07:34	01/23/18 20:44	1

Client Sample ID: B3FTF6 — **Lab Sample ID: 280-105586-20**
Date Collected: 01/15/18 09:57 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	6.5	B	100	4.4	ug/L		01/23/18 07:34	01/23/18 20:46	1
Calcium	47000		200	34.5	ug/L		01/23/18 07:34	01/23/18 20:46	1
Iron	22.0	U	100	22.0	ug/L		01/23/18 07:34	01/23/18 20:46	1
Magnesium	13700		200	10.7	ug/L		01/23/18 07:34	01/23/18 20:46	1
Potassium	7050		3000	237	ug/L		01/23/18 07:34	01/23/18 20:46	1
Sodium	17700		1000	117	ug/L		01/23/18 07:34	01/24/18 15:16	1
Vanadium	17.7		10.0	1.1	ug/L		01/23/18 07:34	01/23/18 20:46	1

Client Sample ID: B3FTX6 — **Lab Sample ID: 280-105586-23**
Date Collected: 01/15/18 09:32 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	45.4	B C	100	4.4	ug/L		02/20/18 16:42	02/21/18 14:58	1
Calcium	22800		200	34.5	ug/L		02/20/18 16:42	02/21/18 14:58	1
Iron	74.4	B C	100	22.0	ug/L		02/20/18 16:42	02/21/18 14:58	1
Magnesium	9330		200	10.7	ug/L		02/20/18 16:42	02/21/18 14:58	1
Potassium	4430		3000	237	ug/L		02/20/18 16:42	02/21/18 14:58	1
Sodium	21000		1000	117	ug/L		02/20/18 16:42	02/21/18 14:58	1
Vanadium	27.8		10.0	1.1	ug/L		02/20/18 16:42	02/21/18 14:58	1

Client Sample ID: B3FV61 — **Lab Sample ID: 280-105586-27**
Date Collected: 01/17/18 09:03 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	4.4	U	100	4.4	ug/L		01/23/18 07:34	01/23/18 20:49	1
Calcium	36100		200	34.5	ug/L		01/23/18 07:34	01/23/18 20:49	1
Iron	22.0	U	100	22.0	ug/L		01/23/18 07:34	01/23/18 20:49	1
Magnesium	9870		200	10.7	ug/L		01/23/18 07:34	01/23/18 20:49	1
Potassium	6240		3000	237	ug/L		01/23/18 07:34	01/23/18 20:49	1
Sodium	10800		1000	117	ug/L		01/23/18 07:34	01/24/18 15:19	1
Vanadium	19.7		10.0	1.1	ug/L		01/23/18 07:34	01/23/18 20:49	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-001

TestAmerica Job ID: 280-105586-1
SDG: DN0308

Method: 6020B - Metals (ICP/MS)

Client Sample ID: B3FXT5 — **Lab Sample ID: 280-105586-9**
Date Collected: 01/16/18 12:53 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9.2	U	50.0	9.2	ug/L		01/23/18 07:34	01/25/18 16:19	1
Antimony	0.40	U	2.0	0.40	ug/L		01/23/18 07:34	01/25/18 16:19	1
Arsenic	**7.3**		5.0	0.33	ug/L		01/23/18 07:34	01/25/18 16:19	1
Barium	**21.1**		1.0	0.29	ug/L		01/23/18 07:34	01/25/18 16:19	1
Beryllium	0.080	U	1.0	0.080	ug/L		01/23/18 07:34	01/25/18 16:19	1
Cadmium	0.27	U	1.0	0.27	ug/L		01/23/18 07:34	01/25/18 16:19	1
Chromium	**7.1**		2.0	0.50	ug/L		01/23/18 07:34	01/25/18 16:19	1
Cobalt	**0.13**	**B**	1.0	0.054	ug/L		01/23/18 07:34	01/25/18 16:19	1
Copper	**0.68**	**B**	2.0	0.56	ug/L		01/23/18 07:34	01/25/18 16:19	1
Lead	0.18	U	1.0	0.18	ug/L		01/23/18 07:34	01/25/18 16:19	1
Manganese	**1.2**		1.0	0.31	ug/L		01/23/18 07:34	01/25/18 16:19	1
Molybdenum	**2.7**		2.0	0.14	ug/L		01/23/18 07:34	01/25/18 16:19	1
Nickel	**3.9**		2.0	0.30	ug/L		01/23/18 07:34	01/25/18 16:19	1
Selenium	**1.2**	**B**	5.0	0.70	ug/L		01/23/18 07:34	01/25/18 16:19	1
Silver	0.033	U	5.0	0.033	ug/L		01/23/18 07:34	01/25/18 16:19	1
Strontium	**200**		10.0	0.30	ug/L		01/23/18 07:34	01/25/18 16:19	1
Thallium	0.050	U	1.0	0.050	ug/L		01/23/18 07:34	01/25/18 16:19	1
Thorium	1.2	U	5.0	1.2	ug/L		01/23/18 07:34	01/25/18 16:19	1
Tin	0.77	U	10.0	0.77	ug/L		01/23/18 07:34	01/25/18 16:19	1
Uranium	**3.1**		1.0	0.050	ug/L		01/23/18 07:34	01/25/18 16:19	1
Zinc	2.0	U	10.0	2.0	ug/L		01/23/18 07:34	01/25/18 16:19	1

Client Sample ID: B3FXM0 — **Lab Sample ID: 280-105586-11**
Date Collected: 01/16/18 08:48 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9.2	U	50.0	9.2	ug/L		01/23/18 07:34	01/25/18 18:26	1
Antimony	0.40	U	2.0	0.40	ug/L		01/23/18 07:34	01/25/18 18:26	1
Arsenic	**8.3**		5.0	0.33	ug/L		01/23/18 07:34	01/25/18 18:26	1
Barium	**44.0**		1.0	0.29	ug/L		01/23/18 07:34	01/25/18 18:26	1
Beryllium	0.080	U	1.0	0.080	ug/L		01/23/18 07:34	01/25/18 18:26	1
Cadmium	0.27	U	1.0	0.27	ug/L		01/23/18 07:34	01/25/18 18:26	1
Chromium	**5.7**		2.0	0.50	ug/L		01/23/18 07:34	01/25/18 18:26	1
Cobalt	**0.062**	**B**	1.0	0.054	ug/L		01/23/18 07:34	01/25/18 18:26	1
Copper	0.56	U	2.0	0.56	ug/L		01/23/18 07:34	01/25/18 18:26	1
Lead	0.18	U	1.0	0.18	ug/L		01/23/18 07:34	01/25/18 18:26	1
Manganese	**0.70**	**B**	1.0	0.31	ug/L		01/23/18 07:34	01/25/18 18:26	1
Molybdenum	**4.1**		2.0	0.14	ug/L		01/23/18 07:34	01/25/18 18:26	1
Nickel	**3.3**		2.0	0.30	ug/L		01/23/18 07:34	01/25/18 18:26	1
Selenium	**1.8**	**B**	5.0	0.70	ug/L		01/23/18 07:34	01/25/18 18:26	1
Silver	0.033	U	5.0	0.033	ug/L		01/23/18 07:34	01/25/18 18:26	1
Strontium	**247**		10.0	0.30	ug/L		01/23/18 07:34	01/25/18 18:26	1
Thallium	0.050	U	1.0	0.050	ug/L		01/23/18 07:34	01/25/18 18:26	1
Thorium	1.2	U	5.0	1.2	ug/L		01/23/18 07:34	01/25/18 18:26	1
Tin	0.77	U	10.0	0.77	ug/L		01/23/18 07:34	01/25/18 18:26	1
Uranium	**2.7**		1.0	0.050	ug/L		01/23/18 07:34	01/25/18 18:26	1
Zinc	2.0	U	10.0	2.0	ug/L		01/23/18 07:34	01/25/18 18:26	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-001

TestAmerica Job ID: 280-105586-1
SDG: DN0308

Method: 6020B - Metals (ICP/MS)

Client Sample ID: B3FYF7
Date Collected: 01/15/18 12:41
Date Received: 01/18/18 09:30

Lab Sample ID: 280-105586-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.8**		5.0	0.33	ug/L		01/23/18 07:34	01/25/18 18:29	1

Client Sample ID: B3FXP0
Date Collected: 01/15/18 09:57
Date Received: 01/18/18 09:30

Lab Sample ID: 280-105586-19
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9.2	U	50.0	9.2	ug/L		01/23/18 07:34	01/25/18 18:32	1
Antimony	0.40	U	2.0	0.40	ug/L		01/23/18 07:34	01/25/18 18:32	1
Arsenic	**5.1**		5.0	0.33	ug/L		01/23/18 07:34	01/25/18 18:32	1
Barium	**34.7**		1.0	0.29	ug/L		01/23/18 07:34	01/25/18 18:32	1
Beryllium	0.080	U	1.0	0.080	ug/L		01/23/18 07:34	01/25/18 18:32	1
Cadmium	0.27	U	1.0	0.27	ug/L		01/23/18 07:34	01/25/18 18:32	1
Chromium	**0.89**	**B**	2.0	0.50	ug/L		01/23/18 07:34	01/25/18 18:32	1
Cobalt	0.054	U	1.0	0.054	ug/L		01/23/18 07:34	01/25/18 18:32	1
Copper	0.56	U	2.0	0.56	ug/L		01/23/18 07:34	01/25/18 18:32	1
Lead	0.18	U	1.0	0.18	ug/L		01/23/18 07:34	01/25/18 18:32	1
Manganese	**0.36**	**B**	1.0	0.31	ug/L		01/23/18 07:34	01/25/18 18:32	1
Molybdenum	**3.7**		2.0	0.14	ug/L		01/23/18 07:34	01/25/18 18:32	1
Nickel	**0.61**	**B**	2.0	0.30	ug/L		01/23/18 07:34	01/25/18 18:32	1
Selenium	**3.2**	**B**	5.0	0.70	ug/L		01/23/18 07:34	01/25/18 18:32	1
Silver	0.033	U	5.0	0.033	ug/L		01/23/18 07:34	01/25/18 18:32	1
Strontium	**278**		10.0	0.30	ug/L		01/23/18 07:34	01/25/18 18:32	1
Thallium	0.050	U	1.0	0.050	ug/L		01/23/18 07:34	01/25/18 18:32	1
Thorium	1.2	U	5.0	1.2	ug/L		01/23/18 07:34	01/25/18 18:32	1
Tin	0.77	U	10.0	0.77	ug/L		01/23/18 07:34	01/25/18 18:32	1
Uranium	**3.2**		1.0	0.050	ug/L		01/23/18 07:34	01/25/18 18:32	1
Zinc	**2.5**	**B**	10.0	2.0	ug/L		01/23/18 07:34	01/25/18 18:32	1

Client Sample ID: B3FYH3
Date Collected: 01/15/18 09:32
Date Received: 01/18/18 09:30

Lab Sample ID: 280-105586-22
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17.3**	**B**	50.0	9.2	ug/L		01/23/18 07:34	01/25/18 18:36	1
Antimony	0.40	U	2.0	0.40	ug/L		01/23/18 07:34	01/25/18 18:36	1
Arsenic	**5.4**		5.0	0.33	ug/L		01/23/18 07:34	01/25/18 18:36	1
Barium	**54.7**		1.0	0.29	ug/L		01/23/18 07:34	01/25/18 18:36	1
Beryllium	0.080	U	1.0	0.080	ug/L		01/23/18 07:34	01/25/18 18:36	1
Cadmium	0.27	U	1.0	0.27	ug/L		01/23/18 07:34	01/25/18 18:36	1
Chromium	**0.57**	**B**	2.0	0.50	ug/L		01/23/18 07:34	01/25/18 18:36	1
Cobalt	0.054	U	1.0	0.054	ug/L		01/23/18 07:34	01/25/18 18:36	1
Copper	0.56	U	2.0	0.56	ug/L		01/23/18 07:34	01/25/18 18:36	1
Lead	0.18	U	1.0	0.18	ug/L		01/23/18 07:34	01/25/18 18:36	1
Manganese	**63.0**		1.0	0.31	ug/L		01/23/18 07:34	01/25/18 18:36	1
Molybdenum	**6.3**		2.0	0.14	ug/L		01/23/18 07:34	01/25/18 18:36	1
Nickel	**0.43**	**B**	2.0	0.30	ug/L		01/23/18 07:34	01/25/18 18:36	1
Selenium	0.70	U	5.0	0.70	ug/L		01/23/18 07:34	01/25/18 18:36	1
Silver	0.033	U	5.0	0.033	ug/L		01/23/18 07:34	01/25/18 18:36	1
Strontium	**176**		10.0	0.30	ug/L		01/23/18 07:34	01/25/18 18:36	1
Thallium	0.050	U	1.0	0.050	ug/L		01/23/18 07:34	01/25/18 18:36	1
Thorium	1.2	U	5.0	1.2	ug/L		01/23/18 07:34	01/25/18 18:36	1

Method: 6020B - Metals (ICP/MS) (Continued)

Client Sample ID: B3FYH3 — **Lab Sample ID: 280-105586-22**
Date Collected: 01/15/18 09:32 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tin	0.77	U	10.0	0.77	ug/L		01/23/18 07:34	01/25/18 18:36	1
Uranium	**3.4**		1.0	0.050	ug/L		01/23/18 07:34	01/25/18 18:36	1
Zinc	2.0	U	10.0	2.0	ug/L		01/23/18 07:34	01/25/18 18:36	1

Client Sample ID: B3FV55 — **Lab Sample ID: 280-105586-28**
Date Collected: 01/17/18 09:03 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9.2	U	50.0	9.2	ug/L		01/23/18 07:34	01/25/18 18:43	1
Antimony	0.40	U	2.0	0.40	ug/L		01/23/18 07:34	01/25/18 18:43	1
Arsenic	**4.9**	**B**	5.0	0.33	ug/L		01/23/18 07:34	01/25/18 18:43	1
Barium	**23.7**		1.0	0.29	ug/L		01/23/18 07:34	01/25/18 18:43	1
Beryllium	0.080	U	1.0	0.080	ug/L		01/23/18 07:34	01/25/18 18:43	1
Cadmium	0.27	U	1.0	0.27	ug/L		01/23/18 07:34	01/25/18 18:43	1
Chromium	**1.2**	**B**	2.0	0.50	ug/L		01/23/18 07:34	01/25/18 18:43	1
Cobalt	0.054	U	1.0	0.054	ug/L		01/23/18 07:34	01/25/18 18:43	1
Copper	0.56	U	2.0	0.56	ug/L		01/23/18 07:34	01/25/18 18:43	1
Lead	0.18	U	1.0	0.18	ug/L		01/23/18 07:34	01/25/18 18:43	1
Manganese	0.31	U	1.0	0.31	ug/L		01/23/18 07:34	01/25/18 18:43	1
Molybdenum	**4.2**		2.0	0.14	ug/L		01/23/18 07:34	01/25/18 18:43	1
Nickel	**0.76**	**B**	2.0	0.30	ug/L		01/23/18 07:34	01/25/18 18:43	1
Selenium	**2.1**	**B**	5.0	0.70	ug/L		01/23/18 07:34	01/25/18 18:43	1
Silver	0.033	U	5.0	0.033	ug/L		01/23/18 07:34	01/25/18 18:43	1
Strontium	**210**		10.0	0.30	ug/L		01/23/18 07:34	01/25/18 18:43	1
Thallium	0.050	U	1.0	0.050	ug/L		01/23/18 07:34	01/25/18 18:43	1
Thorium	1.2	U	5.0	1.2	ug/L		01/23/18 07:34	01/25/18 18:43	1
Tin	0.77	U	10.0	0.77	ug/L		01/23/18 07:34	01/25/18 18:43	1
Uranium	**2.4**		1.0	0.050	ug/L		01/23/18 07:34	01/25/18 18:43	1
Zinc	2.0	U	10.0	2.0	ug/L		01/23/18 07:34	01/25/18 18:43	1

Method: 6020B - Metals (ICP/MS) - Dissolved

Client Sample ID: B3FTH2 — **Lab Sample ID: 280-105586-10**
Date Collected: 01/16/18 12:53 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9.2	U	50.0	9.2	ug/L		01/23/18 07:34	01/25/18 15:34	1
Antimony	**0.55**	**B**	2.0	0.40	ug/L		01/23/18 07:34	01/25/18 15:34	1
Arsenic	**7.7**		5.0	0.33	ug/L		01/23/18 07:34	01/25/18 15:34	1
Barium	**22.5**		1.0	0.29	ug/L		01/23/18 07:34	01/25/18 15:34	1
Beryllium	0.080	U	1.0	0.080	ug/L		01/23/18 07:34	01/25/18 15:34	1
Cadmium	0.27	U	1.0	0.27	ug/L		01/23/18 07:34	01/25/18 15:34	1
Chromium	**2.0**		2.0	0.50	ug/L		01/23/18 07:34	01/25/18 15:34	1
Cobalt	**0.065**	**B**	1.0	0.054	ug/L		01/23/18 07:34	01/25/18 15:34	1
Copper	0.56	U	2.0	0.56	ug/L		01/23/18 07:34	01/25/18 15:34	1
Lead	0.18	U	1.0	0.18	ug/L		01/23/18 07:34	01/25/18 15:34	1
Manganese	**0.59**	**B**	1.0	0.31	ug/L		01/23/18 07:34	01/25/18 15:34	1
Molybdenum	**2.5**		2.0	0.14	ug/L		01/23/18 07:34	01/25/18 15:34	1
Nickel	**1.7**	**B**	2.0	0.30	ug/L		01/23/18 07:34	01/25/18 15:34	1
Selenium	**1.3**	**B**	5.0	0.70	ug/L		01/23/18 07:34	01/25/18 15:34	1

Method: 6020B - Metals (ICP/MS) - Dissolved (Continued)

Client Sample ID: B3FTH2 — **Lab Sample ID: 280-105586-10**
Date Collected: 01/16/18 12:53 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.033	U	5.0	0.033	ug/L		01/23/18 07:34	01/25/18 15:34	1
Strontium	**202**		10.0	0.30	ug/L		01/23/18 07:34	01/25/18 15:34	1
Thallium	0.050	U	1.0	0.050	ug/L		01/23/18 07:34	01/25/18 15:34	1
Thorium	1.2	U	5.0	1.2	ug/L		01/23/18 07:34	01/25/18 15:34	1
Tin	0.77	U	10.0	0.77	ug/L		01/23/18 07:34	01/25/18 15:34	1
Uranium	**3.2**		1.0	0.050	ug/L		01/23/18 07:34	01/25/18 15:34	1
Zinc	2.0	U	10.0	2.0	ug/L		01/23/18 07:34	01/25/18 15:34	1

Client Sample ID: B3FV72 — **Lab Sample ID: 280-105586-13**
Date Collected: 01/16/18 08:48 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9.2	U	50.0	9.2	ug/L		01/23/18 07:34	01/25/18 15:37	1
Antimony	0.40	U	2.0	0.40	ug/L		01/23/18 07:34	01/25/18 15:37	1
Arsenic	**8.7**		5.0	0.33	ug/L		01/23/18 07:34	01/25/18 15:37	1
Barium	**43.8**		1.0	0.29	ug/L		01/23/18 07:34	01/25/18 15:37	1
Beryllium	0.080	U	1.0	0.080	ug/L		01/23/18 07:34	01/25/18 15:37	1
Cadmium	0.27	U	1.0	0.27	ug/L		01/23/18 07:34	01/25/18 15:37	1
Chromium	**2.9**		2.0	0.50	ug/L		01/23/18 07:34	01/25/18 15:37	1
Cobalt	**0.085**	**B**	1.0	0.054	ug/L		01/23/18 07:34	01/25/18 15:37	1
Copper	0.56	U	2.0	0.56	ug/L		01/23/18 07:34	01/25/18 15:37	1
Lead	0.18	U	1.0	0.18	ug/L		01/23/18 07:34	01/25/18 15:37	1
Manganese	**0.51**	**B**	1.0	0.31	ug/L		01/23/18 07:34	01/25/18 15:37	1
Molybdenum	**4.1**		2.0	0.14	ug/L		01/23/18 07:34	01/25/18 15:37	1
Nickel	**2.9**		2.0	0.30	ug/L		01/23/18 07:34	01/25/18 15:37	1
Selenium	**1.9**	**B**	5.0	0.70	ug/L		01/23/18 07:34	01/25/18 15:37	1
Silver	0.033	U	5.0	0.033	ug/L		01/23/18 07:34	01/25/18 15:37	1
Strontium	**236**		10.0	0.30	ug/L		01/23/18 07:34	01/25/18 15:37	1
Thallium	0.050	U	1.0	0.050	ug/L		01/23/18 07:34	01/25/18 15:37	1
Thorium	1.2	U	5.0	1.2	ug/L		01/23/18 07:34	01/25/18 15:37	1
Tin	0.77	U	10.0	0.77	ug/L		01/23/18 07:34	01/25/18 15:37	1
Uranium	**2.6**		1.0	0.050	ug/L		01/23/18 07:34	01/25/18 15:37	1
Zinc	2.0	U	10.0	2.0	ug/L		01/23/18 07:34	01/25/18 15:37	1

Client Sample ID: B3FR99 — **Lab Sample ID: 280-105586-17**
Date Collected: 01/15/18 12:41 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.6**		5.0	0.33	ug/L		01/23/18 07:34	01/25/18 15:55	1

Client Sample ID: B3FTF6 — **Lab Sample ID: 280-105586-20**
Date Collected: 01/15/18 09:57 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9.2	U	50.0	9.2	ug/L		01/23/18 07:34	01/25/18 15:58	1
Antimony	**0.50**	**B**	2.0	0.40	ug/L		01/23/18 07:34	01/25/18 15:58	1
Arsenic	**4.8**	**B**	5.0	0.33	ug/L		01/23/18 07:34	01/25/18 15:58	1
Barium	**34.4**		1.0	0.29	ug/L		01/23/18 07:34	01/25/18 15:58	1
Beryllium	0.080	U	1.0	0.080	ug/L		01/23/18 07:34	01/25/18 15:58	1
Cadmium	0.27	U	1.0	0.27	ug/L		01/23/18 07:34	01/25/18 15:58	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-001

TestAmerica Job ID: 280-105586-1
SDG: DN0308

Method: 6020B - Metals (ICP/MS) - Dissolved (Continued)

Client Sample ID: B3FTF6 — **Lab Sample ID: 280-105586-20**
Date Collected: 01/15/18 09:57 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.93	B	2.0	0.50	ug/L		01/23/18 07:34	01/25/18 15:58	1
Cobalt	0.079	B	1.0	0.054	ug/L		01/23/18 07:34	01/25/18 15:58	1
Copper	0.56	U	2.0	0.56	ug/L		01/23/18 07:34	01/25/18 15:58	1
Lead	0.18	U	1.0	0.18	ug/L		01/23/18 07:34	01/25/18 15:58	1
Manganese	0.40	B	1.0	0.31	ug/L		01/23/18 07:34	01/25/18 15:58	1
Molybdenum	3.4		2.0	0.14	ug/L		01/23/18 07:34	01/25/18 15:58	1
Nickel	0.74	B	2.0	0.30	ug/L		01/23/18 07:34	01/25/18 15:58	1
Selenium	3.3	B	5.0	0.70	ug/L		01/23/18 07:34	01/25/18 15:58	1
Silver	0.033	U	5.0	0.033	ug/L		01/23/18 07:34	01/25/18 15:58	1
Strontium	272		10.0	0.30	ug/L		01/23/18 07:34	01/25/18 15:58	1
Thallium	0.050	U	1.0	0.050	ug/L		01/23/18 07:34	01/25/18 15:58	1
Thorium	1.2	U	5.0	1.2	ug/L		01/23/18 07:34	01/25/18 15:58	1
Tin	0.77	U	10.0	0.77	ug/L		01/23/18 07:34	01/25/18 15:58	1
Uranium	3.1		1.0	0.050	ug/L		01/23/18 07:34	01/25/18 15:58	1
Zinc	2.4	B	10.0	2.0	ug/L		01/23/18 07:34	01/25/18 15:58	1

Client Sample ID: B3FTX6 — **Lab Sample ID: 280-105586-23**
Date Collected: 01/15/18 09:32 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	33.3	B	50.0	9.2	ug/L		02/20/18 16:42	02/21/18 18:13	1
Antimony	0.79	B	2.0	0.40	ug/L		02/20/18 16:42	02/21/18 18:13	1
Arsenic	5.7		5.0	0.33	ug/L		02/20/18 16:42	02/21/18 00:30	1
Barium	56.8		1.0	0.29	ug/L		02/20/18 16:42	02/21/18 00:30	1
Beryllium	0.13	B	1.0	0.080	ug/L		02/20/18 16:42	02/21/18 00:30	1
Cadmium	0.27	U	1.0	0.27	ug/L		02/20/18 16:42	02/21/18 00:30	1
Chromium	0.71	B	2.0	0.50	ug/L		02/20/18 16:42	02/21/18 00:30	1
Cobalt	0.095	B	1.0	0.054	ug/L		02/20/18 16:42	02/21/18 00:30	1
Copper	0.56	U	2.0	0.56	ug/L		02/20/18 16:42	02/21/18 00:30	1
Lead	0.18	U	1.0	0.18	ug/L		02/20/18 16:42	02/21/18 00:30	1
Manganese	59.8		1.0	0.31	ug/L		02/20/18 16:42	02/21/18 00:30	1
Molybdenum	6.7		2.0	0.14	ug/L		02/20/18 16:42	02/21/18 00:30	1
Nickel	0.70	B	2.0	0.30	ug/L		02/20/18 16:42	02/21/18 00:30	1
Selenium	0.77	B	5.0	0.70	ug/L		02/20/18 16:42	02/21/18 00:30	1
Silver	0.033	U	5.0	0.033	ug/L		02/20/18 16:42	02/21/18 00:30	1
Strontium	184		10.0	0.30	ug/L		02/20/18 16:42	02/23/18 14:00	1
Thallium	0.058	B	1.0	0.050	ug/L		02/20/18 16:42	02/21/18 00:30	1
Thorium	1.2	U	5.0	1.2	ug/L		02/20/18 16:42	02/21/18 00:30	1
Tin	0.77	U	10.0	0.77	ug/L		02/20/18 16:42	02/21/18 00:30	1
Uranium	3.4		1.0	0.050	ug/L		02/20/18 16:42	02/21/18 00:30	1
Zinc	2.1	B	10.0	2.0	ug/L		02/20/18 16:42	02/21/18 00:30	1

Client Sample ID: B3FV61 — **Lab Sample ID: 280-105586-27**
Date Collected: 01/17/18 09:03 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9.2	U	50.0	9.2	ug/L		01/23/18 07:34	01/25/18 16:01	1
Antimony	0.40	U	2.0	0.40	ug/L		01/23/18 07:34	01/25/18 16:01	1
Arsenic	5.4		5.0	0.33	ug/L		01/23/18 07:34	01/25/18 16:01	1
Barium	22.3		1.0	0.29	ug/L		01/23/18 07:34	01/25/18 16:01	1

Method: 6020B - Metals (ICP/MS) - Dissolved (Continued)

Client Sample ID: B3FV61 — **Lab Sample ID: 280-105586-27**
Date Collected: 01/17/18 09:03 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.080	U	1.0	0.080	ug/L		01/23/18 07:34	01/25/18 16:01	1
Cadmium	0.27	U	1.0	0.27	ug/L		01/23/18 07:34	01/25/18 16:01	1
Chromium	**1.1**	**B**	2.0	0.50	ug/L		01/23/18 07:34	01/25/18 16:01	1
Cobalt	0.054	U	1.0	0.054	ug/L		01/23/18 07:34	01/25/18 16:01	1
Copper	0.56	U	2.0	0.56	ug/L		01/23/18 07:34	01/25/18 16:01	1
Lead	0.18	U	1.0	0.18	ug/L		01/23/18 07:34	01/25/18 16:01	1
Manganese	0.31	U	1.0	0.31	ug/L		01/23/18 07:34	01/25/18 16:01	1
Molybdenum	**4.3**		2.0	0.14	ug/L		01/23/18 07:34	01/25/18 16:01	1
Nickel	**0.59**	**B**	2.0	0.30	ug/L		01/23/18 07:34	01/25/18 16:01	1
Selenium	**2.0**	**B**	5.0	0.70	ug/L		01/23/18 07:34	01/25/18 16:01	1
Silver	0.033	U	5.0	0.033	ug/L		01/23/18 07:34	01/25/18 16:01	1
Strontium	**210**		10.0	0.30	ug/L		01/23/18 07:34	01/25/18 16:01	1
Thallium	0.050	U	1.0	0.050	ug/L		01/23/18 07:34	01/25/18 16:01	1
Thorium	1.2	U	5.0	1.2	ug/L		01/23/18 07:34	01/25/18 16:01	1
Tin	0.77	U	10.0	0.77	ug/L		01/23/18 07:34	01/25/18 16:01	1
Uranium	**2.4**		1.0	0.050	ug/L		01/23/18 07:34	01/25/18 16:01	1
Zinc	2.0	U	10.0	2.0	ug/L		01/23/18 07:34	01/25/18 16:01	1

Method: 7470A - Mercury (CVAA)

Client Sample ID: B3FXT5 — **Lab Sample ID: 280-105586-9**
Date Collected: 01/16/18 12:53 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		01/25/18 11:29	01/25/18 17:58	1

Client Sample ID: B3FXM0 — **Lab Sample ID: 280-105586-11**
Date Collected: 01/16/18 08:48 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		01/25/18 11:29	01/25/18 18:04	1

Client Sample ID: B3FXP0 — **Lab Sample ID: 280-105586-19**
Date Collected: 01/15/18 09:57 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		01/25/18 11:29	01/25/18 18:11	1

Client Sample ID: B3FYH3 — **Lab Sample ID: 280-105586-22**
Date Collected: 01/15/18 09:32 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		01/25/18 11:29	01/25/18 18:13	1

Client Sample ID: B3FV55 — **Lab Sample ID: 280-105586-28**
Date Collected: 01/17/18 09:03 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		01/25/18 11:29	01/25/18 18:19	1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: B3FTH2 — **Lab Sample ID: 280-105586-10**
Date Collected: 01/16/18 12:53 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		01/25/18 11:29	01/25/18 16:35	1

Client Sample ID: B3FV72 — **Lab Sample ID: 280-105586-13**
Date Collected: 01/16/18 08:48 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		01/25/18 11:29	01/25/18 16:38	1

Client Sample ID: B3FTX6 — **Lab Sample ID: 280-105586-23**
Date Collected: 01/15/18 09:32 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		01/25/18 11:29	01/25/18 18:17	1

Client Sample ID: B3FV61 — **Lab Sample ID: 280-105586-27**
Date Collected: 01/17/18 09:03 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		01/25/18 11:29	01/25/18 16:44	1

General Chemistry

Client Sample ID: B3FRN5 — **Lab Sample ID: 280-105586-1**
Date Collected: 01/16/18 12:29 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**85700**		5000	1070	ug/L			01/22/18 16:53	1

Client Sample ID: B3FVC0 — **Lab Sample ID: 280-105586-4**
Date Collected: 01/16/18 11:53 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**82100**		5000	1070	ug/L			01/22/18 15:50	1

Client Sample ID: B3FY47 — **Lab Sample ID: 280-105586-7**
Date Collected: 01/16/18 09:49 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**78600**		5000	1070	ug/L			01/22/18 17:00	1

Client Sample ID: B3FXL9 — **Lab Sample ID: 280-105586-8**
Date Collected: 01/16/18 12:01 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**93300**		5000	1070	ug/L			01/22/18 16:28	1
Bicarbonate Alkalinity as CaCO3	**93300**		5000	1070	ug/L			01/22/18 16:28	1
Carbonate Alkalinity as CaCO3	1070	U	5000	1070	ug/L			01/22/18 16:28	1
Hydroxide Alkalinity as CaCO3	1070	U	5000	1070	ug/L			01/22/18 16:28	1

General Chemistry

Client Sample ID: B3FYF9 — **Lab Sample ID: 280-105586-21**
Date Collected: 01/15/18 13:40 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**94100**		5000	1070	ug/L			01/22/18 16:47	1
Bicarbonate Alkalinity as CaCO3	**94100**		5000	1070	ug/L			01/22/18 16:47	1
Carbonate Alkalinity as CaCO3	1070	U	5000	1070	ug/L			01/22/18 16:47	1
Hydroxide Alkalinity as CaCO3	1070	U	5000	1070	ug/L			01/22/18 16:47	1

Client Sample ID: B3FYH3 — **Lab Sample ID: 280-105586-22**
Date Collected: 01/15/18 09:32 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**102000**		5000	1070	ug/L			01/22/18 15:44	1
Bicarbonate Alkalinity as CaCO3	**102000**		5000	1070	ug/L			01/22/18 15:44	1
Carbonate Alkalinity as CaCO3	1070	U	5000	1070	ug/L			01/22/18 15:44	1
Hydroxide Alkalinity as CaCO3	1070	U	5000	1070	ug/L			01/22/18 15:44	1

Client Sample ID: B3FXL4 — **Lab Sample ID: 280-105586-24**
Date Collected: 01/15/18 12:32 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**80400**		5000	1070	ug/L			01/22/18 16:41	1
Bicarbonate Alkalinity as CaCO3	**80400**		5000	1070	ug/L			01/22/18 16:41	1
Carbonate Alkalinity as CaCO3	1070	U	5000	1070	ug/L			01/22/18 16:41	1
Hydroxide Alkalinity as CaCO3	1070	U	5000	1070	ug/L			01/22/18 16:41	1

Client Sample ID: B3FV55 — **Lab Sample ID: 280-105586-28**
Date Collected: 01/17/18 09:03 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**85000**		5000	1070	ug/L			01/22/18 17:07	1
Bicarbonate Alkalinity as CaCO3	**85000**		5000	1070	ug/L			01/22/18 17:07	1
Carbonate Alkalinity as CaCO3	1070	U	5000	1070	ug/L			01/22/18 17:07	1
Hydroxide Alkalinity as CaCO3	1070	U	5000	1070	ug/L			01/22/18 17:07	1

Client Sample ID: B3FRR6 — **Lab Sample ID: 280-105586-30**
Date Collected: 01/17/18 09:03 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halogens - Dup	7.7	U	30.0	7.7	ug/L			01/30/18 10:38	1
Total Organic Carbon - Average	**520**	**B C**	1000	155	ug/L			01/25/18 02:11	1

Client Sample ID: B3FV57 — **Lab Sample ID: 280-105586-31**
Date Collected: 01/17/18 09:03 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halogens - Dup	7.7	U	30.0	7.7	ug/L			01/30/18 10:38	1
Total Organic Carbon - Average	**529**	**B C**	1000	155	ug/L			01/25/18 03:32	1

Client Sample ID: B3FRR4 — **Lab Sample ID: 280-105586-32**
Date Collected: 01/17/18 09:03 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halogens - Dup	7.7	U	30.0	7.7	ug/L			01/30/18 10:38	1

General Chemistry (Continued)

Client Sample ID: B3FRR4 — **Lab Sample ID: 280-105586-32**
Date Collected: 01/17/18 09:03 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	**491**	**B C**	1000	155	ug/L			01/25/18 03:47	1

Client Sample ID: B3FRR5 — **Lab Sample ID: 280-105586-33**
Date Collected: 01/17/18 09:03 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halogens - Dup	7.7	U	30.0	7.7	ug/L			01/30/18 10:38	1
Total Organic Carbon - Average	**507**	**B C**	1000	155	ug/L			01/25/18 04:01	1

Client Sample ID: B3FR38 — **Lab Sample ID: 280-105586-34**
Date Collected: 01/17/18 08:45 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halogens - Dup	7.7	U	30.0	7.7	ug/L			01/30/18 10:38	1
Total Organic Carbon - Average	**630**	**B C**	1000	155	ug/L			01/25/18 04:16	1

Client Sample ID: B3FVD6 — **Lab Sample ID: 280-105586-35**
Date Collected: 01/17/18 08:45 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halogens - Dup	7.7	U	30.0	7.7	ug/L			01/30/18 10:38	1
Total Organic Carbon - Average	**613**	**B C**	1000	155	ug/L			01/25/18 04:33	1

Client Sample ID: B3FVD7 — **Lab Sample ID: 280-105586-36**
Date Collected: 01/17/18 08:45 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halogens - Dup	7.7	U N	30.0	7.7	ug/L			01/31/18 13:05	1
Total Organic Carbon - Average	**593**	**B C**	1000	155	ug/L			01/25/18 04:49	1

Client Sample ID: B3FVD8 — **Lab Sample ID: 280-105586-37**
Date Collected: 01/17/18 08:45 — **Matrix: Water**
Date Received: 01/18/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halogens - Dup	7.7	U N	30.0	7.7	ug/L			01/31/18 13:05	1
Total Organic Carbon - Average	**562**	**B C**	1000	155	ug/L			01/25/18 05:04	1

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-001

TestAmerica Job ID: 280-105586-1
SDG: DN0308

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-402273/1-A
Matrix: Water
Analysis Batch: 403614

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 402273

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,6-Tetrachlorophenol	2.0	U	50	2.0	ug/L		01/22/18 07:55	02/01/18 18:49	1
2,4,5-Trichlorophenol	0.45	U	10	0.45	ug/L		01/22/18 07:55	02/01/18 18:49	1
2,4,6-Trichlorophenol	0.29	U	10	0.29	ug/L		01/22/18 07:55	02/01/18 18:49	1
2,4-Dichlorophenol	0.64	U	10	0.64	ug/L		01/22/18 07:55	02/01/18 18:49	1
2,4-Dimethylphenol	0.58	U	10	0.58	ug/L		01/22/18 07:55	02/01/18 18:49	1
2,4-Dinitrophenol	10	U	30	10	ug/L		01/22/18 07:55	02/01/18 18:49	1
2,6-Dichlorophenol	1.4	U	10	1.4	ug/L		01/22/18 07:55	02/01/18 18:49	1
2-Chlorophenol	2.0	U	10	2.0	ug/L		01/22/18 07:55	02/01/18 18:49	1
2-Methylphenol	0.98	U	10	0.98	ug/L		01/22/18 07:55	02/01/18 18:49	1
2-Nitrophenol	0.39	U	10	0.39	ug/L		01/22/18 07:55	02/01/18 18:49	1
3 & 4 Methylphenol	0.25	U	10	0.25	ug/L		01/22/18 07:55	02/01/18 18:49	1
4,6-Dinitro-2-methylphenol	4.0	U	50	4.0	ug/L		01/22/18 07:55	02/01/18 18:49	1
4-Chloro-3-methylphenol	2.4	U	10	2.4	ug/L		01/22/18 07:55	02/01/18 18:49	1
4-Nitrophenol	1.2	U	10	1.2	ug/L		01/22/18 07:55	02/01/18 18:49	1
Dinoseb	4.0	U	20	4.0	ug/L		01/22/18 07:55	02/01/18 18:49	1
Pentachlorophenol	20	U	50	20	ug/L		01/22/18 07:55	02/01/18 18:49	1
Phenol	2.0	U	10	2.0	ug/L		01/22/18 07:55	02/01/18 18:49	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*				*01/22/18 07:55*	*02/01/18 18:49*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*75*		*42 - 131*	*01/22/18 07:55*	*02/01/18 18:49*	*1*
2-Fluorobiphenyl (Surr)	*77*		*48 - 120*	*01/22/18 07:55*	*02/01/18 18:49*	*1*
2-Fluorophenol (Surr)	*81*		*41 - 120*	*01/22/18 07:55*	*02/01/18 18:49*	*1*
Nitrobenzene-d5 (Surr)	*78*		*42 - 120*	*01/22/18 07:55*	*02/01/18 18:49*	*1*
Phenol-d5 (Surr)	*80*		*45 - 124*	*01/22/18 07:55*	*02/01/18 18:49*	*1*
Terphenyl-d14 (Surr)	*84*		*20 - 130*	*01/22/18 07:55*	*02/01/18 18:49*	*1*

Lab Sample ID: LCS 280-402273/2-A
Matrix: Water
Analysis Batch: 403614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 402273

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,4,6-Tetrachlorophenol	80.0	72.5		ug/L		91	70 - 130
2,4,5-Trichlorophenol	80.0	71.3		ug/L		89	70 - 130
2,4,6-Trichlorophenol	80.0	73.7		ug/L		92	70 - 130
2,4-Dichlorophenol	80.0	69.0		ug/L		86	70 - 130
2,4-Dimethylphenol	80.0	54.3	o	ug/L		68	70 - 130
2,4-Dinitrophenol	160	120		ug/L		75	70 - 130
2,6-Dichlorophenol	80.0	69.2		ug/L		86	70 - 130
2-Chlorophenol	80.0	69.9		ug/L		87	70 - 130
2-Methylphenol	80.0	67.7		ug/L		85	70 - 130
2-Nitrophenol	80.0	71.5		ug/L		89	70 - 130
3 & 4 Methylphenol	80.0	64.2		ug/L		80	70 - 130
4,6-Dinitro-2-methylphenol	160	129		ug/L		81	70 - 130
4-Chloro-3-methylphenol	80.0	71.4		ug/L		89	70 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-402273/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403614 — **Prep Batch: 402273**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitrophenol	160	126		ug/L		79	70 - 130
Pentachlorophenol	160	135		ug/L		84	70 - 130
Phenol	80.0	64.0		ug/L		80	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*91*		*42 - 131*
2-Fluorobiphenyl (Surr)	*81*		*48 - 120*
2-Fluorophenol (Surr)	*81*		*41 - 120*
Nitrobenzene-d5 (Surr)	*81*		*42 - 120*
Phenol-d5 (Surr)	*76*		*45 - 124*
Terphenyl-d14 (Surr)	*79*		*20 - 130*

Lab Sample ID: 280-105586-25 MS — **Client Sample ID: B3FYH4**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403614 — **Prep Batch: 402273**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,4,6-Tetrachlorophenol	1.9	U	77.0	68.1		ug/L		88	60 - 122
2,4,5-Trichlorophenol	0.43	U	77.0	68.0		ug/L		88	59 - 120
2,4,6-Trichlorophenol	0.28	U	77.0	69.8		ug/L		91	59 - 121
2,4-Dichlorophenol	0.61	U	77.0	65.9		ug/L		86	59 - 120
2,4-Dimethylphenol	0.56	U o	77.0	44.6		ug/L		58	43 - 120
2,4-Dinitrophenol	9.6	U	154	117		ug/L		76	48 - 129
2,6-Dichlorophenol	1.3	U	77.0	68.5		ug/L		89	30 - 150
2-Chlorophenol	1.9	U	77.0	68.3		ug/L		89	56 - 120
2-Methylphenol	0.94	U	77.0	66.1		ug/L		86	56 - 120
2-Nitrophenol	0.37	U	77.0	68.3		ug/L		89	56 - 121
3 & 4 Methylphenol	0.28	J	77.0	63.6		ug/L		82	58 - 120
4,6-Dinitro-2-methylphenol	3.8	U	154	117		ug/L		76	60 - 126
4-Chloro-3-methylphenol	2.3	U	77.0	66.8		ug/L		87	61 - 120
4-Nitrophenol	1.2	U	154	131		ug/L		85	59 - 129
Pentachlorophenol	19	U	154	126		ug/L		82	43 - 126
Phenol	1.9	U	77.0	66.7		ug/L		87	57 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*89*		*42 - 131*
2-Fluorobiphenyl (Surr)	*80*		*48 - 120*
2-Fluorophenol (Surr)	*83*		*41 - 120*
Nitrobenzene-d5 (Surr)	*81*		*42 - 120*
Phenol-d5 (Surr)	*83*		*45 - 124*
Terphenyl-d14 (Surr)	*79*		*20 - 130*

Lab Sample ID: 280-105586-25 MSD — **Client Sample ID: B3FYH4**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403614 — **Prep Batch: 402273**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,3,4,6-Tetrachlorophenol	1.9	U	77.3	71.4		ug/L		92	60 - 122	5	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-105586-25 MSD — **Client Sample ID: B3FYH4**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403614 — **Prep Batch: 402273**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	0.43	U	77.3	70.8		ug/L		92	59 - 120	4	20
2,4,6-Trichlorophenol	0.28	U	77.3	73.5		ug/L		95	59 - 121	5	20
2,4-Dichlorophenol	0.61	U	77.3	68.5		ug/L		89	59 - 120	4	20
2,4-Dimethylphenol	0.56	U o	77.3	47.5		ug/L		61	43 - 120	6	20
2,4-Dinitrophenol	9.6	U	155	123		ug/L		80	48 - 129	5	20
2,6-Dichlorophenol	1.3	U	77.3	67.2		ug/L		87	30 - 150	2	20
2-Chlorophenol	1.9	U	77.3	68.3		ug/L		88	56 - 120	0	20
2-Methylphenol	0.94	U	77.3	65.7		ug/L		85	56 - 120	1	20
2-Nitrophenol	0.37	U	77.3	70.3		ug/L		91	56 - 121	3	20
3 & 4 Methylphenol	0.28	J	77.3	63.2		ug/L		81	58 - 120	1	20
4,6-Dinitro-2-methylphenol	3.8	U	155	125		ug/L		81	60 - 126	7	20
4-Chloro-3-methylphenol	2.3	U	77.3	66.9		ug/L		87	61 - 120	0	20
4-Nitrophenol	1.2	U	155	134		ug/L		87	59 - 129	2	20
Pentachlorophenol	19	U	155	129		ug/L		83	43 - 126	2	20
Phenol	1.9	U	77.3	66.8		ug/L		86	57 - 120	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*91*		*42 - 131*
2-Fluorobiphenyl (Surr)	*83*		*48 - 120*
2-Fluorophenol (Surr)	*82*		*41 - 120*
Nitrobenzene-d5 (Surr)	*82*		*42 - 120*
Phenol-d5 (Surr)	*82*		*45 - 124*
Terphenyl-d14 (Surr)	*80*		*20 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 280-402237/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403721 — **Prep Batch: 402237**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0077	U	0.050	0.0077	ug/L		01/20/18 12:45	02/02/18 14:34	1
alpha-Chlordane	0.0053	U	0.050	0.0053	ug/L		01/20/18 12:45	02/02/18 14:34	1
4,4'-DDE	0.0075	U	0.050	0.0075	ug/L		01/20/18 12:45	02/02/18 14:34	1
4,4'-DDT	0.015	U	0.050	0.015	ug/L		01/20/18 12:45	02/02/18 14:34	1
Endrin ketone	0.0070	U	0.050	0.0070	ug/L		01/20/18 12:45	02/02/18 14:34	1
Aldrin	0.0059	U	0.050	0.0059	ug/L		01/20/18 12:45	02/02/18 14:34	1
gamma-Chlordane	0.0091	U	0.050	0.0091	ug/L		01/20/18 12:45	02/02/18 14:34	1
alpha-BHC	0.0053	U	0.050	0.0053	ug/L		01/20/18 12:45	02/02/18 14:34	1
Heptachlor	0.0077	U	0.050	0.0077	ug/L		01/20/18 12:45	02/02/18 14:34	1
beta-BHC	0.0087	U	0.050	0.0087	ug/L		01/20/18 12:45	02/02/18 14:34	1
delta-BHC	0.0058	U	0.050	0.0058	ug/L		01/20/18 12:45	02/02/18 14:34	1
Dieldrin	0.0063	U	0.050	0.0063	ug/L		01/20/18 12:45	02/02/18 14:34	1
Endosulfan I	0.0058	U	0.050	0.0058	ug/L		01/20/18 12:45	02/02/18 14:34	1
Endosulfan II	0.0070	U	0.050	0.0070	ug/L		01/20/18 12:45	02/02/18 14:34	1
Endosulfan sulfate	0.0057	U	0.050	0.0057	ug/L		01/20/18 12:45	02/02/18 14:34	1
Endrin	0.0079	U	0.050	0.0079	ug/L		01/20/18 12:45	02/02/18 14:34	1
Endrin aldehyde	0.0088	U	0.050	0.0088	ug/L		01/20/18 12:45	02/02/18 14:34	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 280-402237/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403721 — **Prep Batch: 402237**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	0.0069	U	0.050	0.0069	ug/L		01/20/18 12:45	02/02/18 14:34	1
Heptachlor epoxide	0.0075	U	0.050	0.0075	ug/L		01/20/18 12:45	02/02/18 14:34	1
Methoxychlor	0.013	U	0.10	0.013	ug/L		01/20/18 12:45	02/02/18 14:34	1
Toxaphene	0.37	U	2.0	0.37	ug/L		01/20/18 12:45	02/02/18 14:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*99*		*34 - 122*	*01/20/18 12:45*	*02/02/18 14:34*	*1*
Tetrachloro-m-xylene	*95*		*28 - 115*	*01/20/18 12:45*	*02/02/18 14:34*	*1*

Lab Sample ID: LCS 280-402237/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403721 — **Prep Batch: 402237**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.500	0.449		ug/L		90	70 - 130
alpha-Chlordane	0.500	0.439		ug/L		88	75 - 128
4,4'-DDE	0.500	0.434		ug/L		87	70 - 130
4,4'-DDT	0.500	0.461		ug/L		92	70 - 130
Endrin ketone	0.500	0.454		ug/L		91	75 - 137
Aldrin	0.500	0.442		ug/L		88	70 - 130
gamma-Chlordane	0.500	0.420		ug/L		84	73 - 131
alpha-BHC	0.500	0.430		ug/L		86	70 - 130
Heptachlor	0.500	0.435		ug/L		87	52 - 129
beta-BHC	0.500	0.439		ug/L		88	70 - 130
delta-BHC	0.500	0.439		ug/L		88	70 - 130
Dieldrin	0.500	0.459		ug/L		92	70 - 130
Endosulfan I	0.500	0.460		ug/L		92	70 - 130
Endosulfan II	0.500	0.446		ug/L		89	70 - 130
Endosulfan sulfate	0.500	0.469		ug/L		94	70 - 130
Endrin	0.500	0.475		ug/L		95	70 - 130
Endrin aldehyde	0.500	0.444		ug/L		89	70 - 130
gamma-BHC (Lindane)	0.500	0.418		ug/L		84	70 - 130
Heptachlor epoxide	0.500	0.448		ug/L		90	70 - 130
Methoxychlor	0.500	0.479		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Decachlorobiphenyl	*98*		*34 - 122*
Tetrachloro-m-xylene	*95*		*28 - 115*

Lab Sample ID: 280-105586-26 MS — **Client Sample ID: B3FXD2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403721 — **Prep Batch: 402237**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.0073	U	0.478	0.420		ug/L		88	78 - 138
alpha-Chlordane	0.0050	U	0.478	0.414		ug/L		87	75 - 128
4,4'-DDE	0.0071	U	0.478	0.412		ug/L		86	74 - 124
4,4'-DDT	0.014	U	0.478	0.416		ug/L		87	72 - 139

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 280-105586-26 MS — **Client Sample ID: B3FXD2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403721 — **Prep Batch: 402237**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin ketone	0.0067	U	0.478	0.430		ug/L		90	75 - 137
Aldrin	0.0056	U	0.478	0.387		ug/L		81	44 - 127
gamma-Chlordane	0.0087	U	0.478	0.393		ug/L		82	73 - 131
alpha-BHC	0.0050	U	0.478	0.400		ug/L		84	73 - 133
Heptachlor	0.0073	U	0.478	0.385		ug/L		80	52 - 129
beta-BHC	0.0083	U	0.478	0.413		ug/L		86	67 - 133
delta-BHC	0.0055	U	0.478	0.412		ug/L		86	72 - 135
Dieldrin	0.0060	U	0.478	0.439		ug/L		92	78 - 132
Endosulfan I	0.0055	U	0.478	0.442		ug/L		92	73 - 128
Endosulfan II	0.0067	U	0.478	0.422		ug/L		88	75 - 132
Endosulfan sulfate	0.0054	U	0.478	0.426		ug/L		89	77 - 135
Endrin	0.0075	U	0.478	0.445		ug/L		93	74 - 171
Endrin aldehyde	0.0084	U	0.478	0.422		ug/L		88	59 - 136
gamma-BHC (Lindane)	0.0066	U	0.478	0.389		ug/L		81	71 - 132
Heptachlor epoxide	0.0071	U	0.478	0.425		ug/L		89	77 - 132
Methoxychlor	0.012	U	0.478	0.434		ug/L		91	67 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Decachlorobiphenyl	*99*		*34 - 122*
Tetrachloro-m-xylene	*97*		*28 - 115*
Decachlorobiphenyl	*99*		*34 - 122*
Tetrachloro-m-xylene	*97*		*28 - 115*

Lab Sample ID: 280-105586-26 MSD — **Client Sample ID: B3FXD2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403721 — **Prep Batch: 402237**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	0.0073	U	0.477	0.430		ug/L		90	78 - 138	2	20
alpha-Chlordane	0.0050	U	0.477	0.423		ug/L		89	75 - 128	2	20
4,4'-DDE	0.0071	U	0.477	0.421		ug/L		88	74 - 124	2	20
4,4'-DDT	0.014	U	0.477	0.423		ug/L		89	72 - 139	2	20
Endrin ketone	0.0067	U	0.477	0.440		ug/L		92	75 - 137	2	20
Aldrin	0.0056	U	0.477	0.410		ug/L		86	44 - 127	6	20
gamma-Chlordane	0.0087	U	0.477	0.396		ug/L		83	73 - 131	1	20
alpha-BHC	0.0050	U	0.477	0.412		ug/L		86	73 - 133	3	50
Heptachlor	0.0073	U	0.477	0.397		ug/L		83	52 - 129	3	20
beta-BHC	0.0083	U	0.477	0.421		ug/L		88	67 - 133	2	20
delta-BHC	0.0055	U	0.477	0.423		ug/L		89	72 - 135	3	20
Dieldrin	0.0060	U	0.477	0.449		ug/L		94	78 - 132	2	20
Endosulfan I	0.0055	U	0.477	0.451		ug/L		95	73 - 128	2	20
Endosulfan II	0.0067	U	0.477	0.429		ug/L		90	75 - 132	1	20
Endosulfan sulfate	0.0054	U	0.477	0.443		ug/L		93	77 - 135	4	20
Endrin	0.0075	U	0.477	0.450		ug/L		94	74 - 171	1	20
Endrin aldehyde	0.0084	U	0.477	0.438		ug/L		92	59 - 136	4	20
gamma-BHC (Lindane)	0.0066	U	0.477	0.397		ug/L		83	71 - 132	2	20
Heptachlor epoxide	0.0071	U	0.477	0.434		ug/L		91	77 - 132	2	20
Methoxychlor	0.012	U	0.477	0.440		ug/L		92	67 - 150	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Decachlorobiphenyl	99		34 - 122
Tetrachloro-m-xylene	101		28 - 115
Decachlorobiphenyl	99		34 - 122
Tetrachloro-m-xylene	101		28 - 115

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 280-402237/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403514 — **Prep Batch: 402237**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.12	U	1.0	0.12	ug/L		01/20/18 12:45	02/01/18 15:52	1
Aroclor 1221	0.21	U	1.0	0.21	ug/L		01/20/18 12:45	02/01/18 15:52	1
Aroclor 1232	0.17	U	1.0	0.17	ug/L		01/20/18 12:45	02/01/18 15:52	1
Aroclor 1242	0.10	U	1.0	0.10	ug/L		01/20/18 12:45	02/01/18 15:52	1
Aroclor 1248	0.092	U	1.0	0.092	ug/L		01/20/18 12:45	02/01/18 15:52	1
Aroclor 1254	0.11	U	1.0	0.11	ug/L		01/20/18 12:45	02/01/18 15:52	1
Aroclor 1260	0.16	U	1.0	0.16	ug/L		01/20/18 12:45	02/01/18 15:52	1
Aroclor 1262	0.085	U	1.0	0.085	ug/L		01/20/18 12:45	02/01/18 15:52	1
Aroclor 1268	0.36	U	1.0	0.36	ug/L		01/20/18 12:45	02/01/18 15:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Decachlorobiphenyl	96		30 - 136	01/20/18 12:45	02/01/18 15:52	1
Tetrachloro-m-xylene	90		25 - 120	01/20/18 12:45	02/01/18 15:52	1

Lab Sample ID: LCS 280-402237/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403514 — **Prep Batch: 402237**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	2.00	2.06		ug/L		103	70 - 130
Aroclor 1260	2.00	2.06		ug/L		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Decachlorobiphenyl	94		30 - 136
Tetrachloro-m-xylene	89		25 - 120

Lab Sample ID: 280-105586-26 MS — **Client Sample ID: B3FXD2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403514 — **Prep Batch: 402237**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	0.12	U	1.90	2.05		ug/L		108	58 - 128
Aroclor 1260	0.15	U	1.90	2.07		ug/L		109	69 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
Decachlorobiphenyl	102		30 - 136
Tetrachloro-m-xylene	90		25 - 120

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 280-105586-26 MSD — **Client Sample ID: B3FXD2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403514 — **Prep Batch: 402237**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	0.12	U	1.92	2.16		ug/L		113	58 - 128	5	20
Aroclor 1260	0.15	U	1.92	2.14		ug/L		112	69 - 140	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Decachlorobiphenyl	*103*		*30 - 136*
Tetrachloro-m-xylene	*94*		*25 - 120*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 280-402202/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404929 — **Prep Batch: 402202**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.19	U	1.0	0.19	ug/L		01/19/18 16:10	02/15/18 04:15	1
2,4-D	0.21	U	4.0	0.21	ug/L		01/19/18 16:10	02/15/18 04:15	1
2,4-DB	0.36	U	4.0	0.36	ug/L		01/19/18 16:10	02/15/18 04:15	1
Dalapon	0.91	U	2.0	0.91	ug/L		01/19/18 16:10	02/15/18 04:15	1
Dicamba	0.15	U	2.0	0.15	ug/L		01/19/18 16:10	02/15/18 04:15	1
Dichlorprop	0.65	U	4.0	0.65	ug/L		01/19/18 16:10	02/15/18 04:15	1
Dinoseb	0.45	U	1.0	0.45	ug/L		01/19/18 16:10	02/15/18 04:15	1
MCPA	17	U	400	17	ug/L		01/19/18 16:10	02/15/18 04:15	1
MCPP	33	U	400	33	ug/L		01/19/18 16:10	02/15/18 04:15	1
Silvex (2,4,5-TP)	0.17	U	1.0	0.17	ug/L		01/19/18 16:10	02/15/18 04:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*80*		*39 - 135*	*01/19/18 16:10*	*02/15/18 04:15*	*1*

Lab Sample ID: LCS 280-402202/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404929 — **Prep Batch: 402202**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	5.00	2.97	o	ug/L		59	70 - 130
2,4-D	5.00	3.36	J o	ug/L		67	70 - 130
2,4-DB	5.00	2.55	J o	ug/L		51	70 - 130
Dalapon	5.00	3.16	o	ug/L		63	70 - 130
Dicamba	5.00	2.98	o	ug/L		60	70 - 130
Dichlorprop	5.00	3.21	J o	ug/L		64	70 - 130
Dinoseb	5.00	2.08	o	ug/L		42	70 - 130
MCPA	500	287	J o	ug/L		57	70 - 130
MCPP	500	337	J o	ug/L		67	70 - 130
Silvex (2,4,5-TP)	5.00	3.13	o	ug/L		63	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCAA	*60*		*39 - 135*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCSD 280-402202/10-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404929 — **Prep Batch: 402202**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T	5.00	4.73	y	ug/L		95	70 - 130	46	20
2,4-D	5.00	5.29	y	ug/L		106	70 - 130	45	20
2,4-DB	5.00	4.14	y	ug/L		83	70 - 130	47	20
Dalapon	5.00	4.51	y	ug/L		90	70 - 130	35	20
Dicamba	5.00	4.50	y	ug/L		90	70 - 130	41	20
Dichlorprop	5.00	4.92	y	ug/L		98	70 - 130	42	20
Dinoseb	5.00	2.68	o y	ug/L		54	70 - 130	25	20
MCPA	500	445	y	ug/L		89	70 - 130	43	20
MCPP	500	526	y	ug/L		105	70 - 130	44	20
Silvex (2,4,5-TP)	5.00	4.69	y	ug/L		94	70 - 130	40	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCAA	*88*		*39 - 135*

Lab Sample ID: 280-105586-26 MS — **Client Sample ID: B3FXD2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404929 — **Prep Batch: 402202**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	0.18	U o y	4.75	4.07		ug/L		86	45 - 135
2,4-D	0.20	U o y	4.75	4.45		ug/L		94	46 - 126
2,4-DB	0.34	U o y	4.75	3.72	J	ug/L		78	18 - 135
Dalapon	0.86	U o y	4.75	3.95		ug/L		83	52 - 119
Dicamba	0.14	U o y	4.75	3.88		ug/L		82	50 - 128
Dichlorprop	0.62	U o y	4.75	4.20		ug/L		88	44 - 121
Dinoseb	0.43	U o y	4.75	2.26		ug/L		47	25 - 132
MCPA	16	U o y	475	364	J	ug/L		77	43 - 118
MCPP	31	U o y	475	437		ug/L		92	45 - 121
Silvex (2,4,5-TP)	0.16	U o y	4.75	4.03		ug/L		85	48 - 127

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCAA	*80*		*39 - 135*

Lab Sample ID: 280-105586-26 MSD — **Client Sample ID: B3FXD2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404929 — **Prep Batch: 402202**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T	0.18	U o y	4.77	4.32		ug/L		90	45 - 135	6	20
2,4-D	0.20	U o y	4.77	4.76		ug/L		100	46 - 126	7	20
2,4-DB	0.34	U o y	4.77	3.82		ug/L		80	18 - 135	2	20
Dalapon	0.86	U o y	4.77	4.24		ug/L		89	52 - 119	7	20
Dicamba	0.14	U o y	4.77	4.32		ug/L		91	50 - 128	11	20
Dichlorprop	0.62	U o y	4.77	4.51		ug/L		94	44 - 121	7	20
Dinoseb	0.43	U o y	4.77	2.29		ug/L		48	25 - 132	1	20
MCPA	16	U o y	477	396		ug/L		83	43 - 118	8	20
MCPP	31	U o y	477	488		ug/L		102	45 - 121	11	20

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: 280-105586-26 MSD — **Client Sample ID: B3FXD2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404929 — **Prep Batch: 402202**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silvex (2,4,5-TP)	0.16	U o y	4.77	4.35		ug/L		91	48 - 127	8	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCAA	*82*		*39 - 135*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 280-402193/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402551 — **Prep Batch: 402193**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.2	U	20.0	5.2	ug/L		01/23/18 07:34	01/23/18 20:51	1
Arsenic	4.4	U	15.0	4.4	ug/L		01/23/18 07:34	01/23/18 20:51	1
Barium	0.82	U	10.0	0.82	ug/L		01/23/18 07:34	01/23/18 20:51	1
Cadmium	0.45	U	5.0	0.45	ug/L		01/23/18 07:34	01/23/18 20:51	1
Calcium	34.5	U	200	34.5	ug/L		01/23/18 07:34	01/23/18 20:51	1
Chromium	0.66	U	10.0	0.66	ug/L		01/23/18 07:34	01/23/18 20:51	1
Cobalt	1.2	U	10.0	1.2	ug/L		01/23/18 07:34	01/23/18 20:51	1
Copper	4.2	U	15.0	4.2	ug/L		01/23/18 07:34	01/23/18 20:51	1
Iron	22.0	U	100	22.0	ug/L		01/23/18 07:34	01/23/18 20:51	1
Magnesium	10.7	U	200	10.7	ug/L		01/23/18 07:34	01/23/18 20:51	1
Manganese	0.26	U	10.0	0.26	ug/L		01/23/18 07:34	01/23/18 20:51	1
Nickel	2.6	U	40.0	2.6	ug/L		01/23/18 07:34	01/23/18 20:51	1
Potassium	237	U	3000	237	ug/L		01/23/18 07:34	01/23/18 20:51	1
Silver	0.93	U	10.0	0.93	ug/L		01/23/18 07:34	01/23/18 20:51	1
Vanadium	1.1	U	10.0	1.1	ug/L		01/23/18 07:34	01/23/18 20:51	1
Zinc	4.5	U	20.0	4.5	ug/L		01/23/18 07:34	01/23/18 20:51	1
Boron	4.4	U	100	4.4	ug/L		01/23/18 07:34	01/23/18 20:51	1

Lab Sample ID: MB 280-402193/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402719 — **Prep Batch: 402193**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	117	U	1000	117	ug/L		01/23/18 07:34	01/24/18 15:22	1

Lab Sample ID: LCS 280-402193/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402551 — **Prep Batch: 402193**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	500	510.7		ug/L		102	80 - 120
Arsenic	1000	997.9		ug/L		100	80 - 120
Barium	2000	2165		ug/L		108	80 - 120
Cadmium	100	107.0		ug/L		107	80 - 120
Calcium	50000	49650		ug/L		99	80 - 120
Chromium	200	200.9		ug/L		100	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-402193/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402551 — **Prep Batch: 402193**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	500	496.0		ug/L		99	80 - 120
Copper	250	254.9		ug/L		102	80 - 120
Iron	1000	977.5		ug/L		98	80 - 120
Magnesium	50000	49400		ug/L		99	80 - 120
Manganese	500	501.4		ug/L		100	80 - 120
Nickel	500	496.6		ug/L		99	80 - 120
Potassium	50000	54180		ug/L		108	80 - 120
Silver	50.0	48.24		ug/L		96	80 - 120
Vanadium	500	517.6		ug/L		104	80 - 120
Zinc	500	505.4		ug/L		101	80 - 120
Boron	1000	994.5		ug/L		99	80 - 120

Lab Sample ID: LCS 280-402193/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402719 — **Prep Batch: 402193**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	50000	54240		ug/L		108	80 - 120

Lab Sample ID: 280-105586-5 MS — **Client Sample ID: B3FV92**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402551 — **Prep Batch: 402193**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	5.2	U	500	459.1		ug/L		92	75 - 125
Arsenic	4.4	U	1000	897.4		ug/L		90	75 - 125
Barium	42.3		2000	1945		ug/L		95	75 - 125
Cadmium	0.68	B	100	96.15		ug/L		95	75 - 125
Calcium	33700		50000	74260		ug/L		81	75 - 125
Chromium	19.8		200	202.3		ug/L		91	75 - 125
Cobalt	1.2	U	500	442.9		ug/L		89	75 - 125
Copper	4.2	U	250	229.6		ug/L		92	75 - 125
Iron	158		1000	1077		ug/L		92	75 - 125
Magnesium	11300		50000	55080		ug/L		88	75 - 125
Manganese	7.9	B	500	457.6		ug/L		90	75 - 125
Nickel	8.4	B	500	452.5		ug/L		89	75 - 125
Potassium	4170		50000	51820		ug/L		95	75 - 125
Silver	0.93	U	50.0	43.44		ug/L		87	75 - 125
Vanadium	24.5		500	485.4		ug/L		92	75 - 125
Zinc	4.5	U	500	463.7		ug/L		93	75 - 125
Boron	13.6	B	1000	911.0		ug/L		90	75 - 125

Lab Sample ID: 280-105586-5 MS — **Client Sample ID: B3FV92**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402719 — **Prep Batch: 402193**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	24900		50000	71820		ug/L		94	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 280-105586-5 MSD — **Client Sample ID: B3FV92**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402551 — **Prep Batch: 402193**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	5.2	U	500	518.2		ug/L		104	75 - 125	12	20
Arsenic	4.4	U	1000	1021		ug/L		102	75 - 125	13	20
Barium	42.3		2000	2197		ug/L		108	75 - 125	12	20
Cadmium	0.68	B	100	109.4		ug/L		109	75 - 125	13	20
Calcium	33700		50000	83060		ug/L		99	75 - 125	11	20
Chromium	19.8		200	236.3		ug/L		108	75 - 125	16	20
Cobalt	1.2	U	500	500.5		ug/L		100	75 - 125	12	20
Copper	4.2	U	250	258.7		ug/L		103	75 - 125	12	20
Iron	158		1000	1279		ug/L		112	75 - 125	17	20
Magnesium	11300		50000	61110		ug/L		100	75 - 125	10	20
Manganese	7.9	B	500	512.0		ug/L		101	75 - 125	11	20
Nickel	8.4	B	500	513.9		ug/L		101	75 - 125	13	20
Potassium	4170		50000	58190		ug/L		108	75 - 125	12	20
Silver	0.93	U	50.0	49.85		ug/L		100	75 - 125	14	20
Vanadium	24.5		500	544.9		ug/L		104	75 - 125	12	20
Zinc	4.5	U	500	513.1		ug/L		103	75 - 125	10	20
Boron	13.6	B	1000	1029		ug/L		102	75 - 125	12	20

Lab Sample ID: 280-105586-5 MSD — **Client Sample ID: B3FV92**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402719 — **Prep Batch: 402193**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sodium	24900		50000	77480		ug/L		105	75 - 125	8	20

Lab Sample ID: MB 280-402195/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 402551 — **Prep Batch: 402195**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.2	U	20.0	5.2	ug/L		01/23/18 07:34	01/23/18 20:07	1
Arsenic	4.4	U	15.0	4.4	ug/L		01/23/18 07:34	01/23/18 20:07	1
Barium	0.910	B	10.0	0.82	ug/L		01/23/18 07:34	01/23/18 20:07	1
Cadmium	0.45	U	5.0	0.45	ug/L		01/23/18 07:34	01/23/18 20:07	1
Calcium	34.5	U	200	34.5	ug/L		01/23/18 07:34	01/23/18 20:07	1
Chromium	0.66	U	10.0	0.66	ug/L		01/23/18 07:34	01/23/18 20:07	1
Cobalt	1.2	U	10.0	1.2	ug/L		01/23/18 07:34	01/23/18 20:07	1
Copper	4.2	U	15.0	4.2	ug/L		01/23/18 07:34	01/23/18 20:07	1
Iron	22.0	U	100	22.0	ug/L		01/23/18 07:34	01/23/18 20:07	1
Magnesium	10.7	U	200	10.7	ug/L		01/23/18 07:34	01/23/18 20:07	1
Manganese	0.26	U	10.0	0.26	ug/L		01/23/18 07:34	01/23/18 20:07	1
Nickel	2.6	U	40.0	2.6	ug/L		01/23/18 07:34	01/23/18 20:07	1
Potassium	237	U	3000	237	ug/L		01/23/18 07:34	01/23/18 20:07	1
Silver	0.93	U	10.0	0.93	ug/L		01/23/18 07:34	01/23/18 20:07	1
Vanadium	1.1	U	10.0	1.1	ug/L		01/23/18 07:34	01/23/18 20:07	1
Zinc	4.5	U	20.0	4.5	ug/L		01/23/18 07:34	01/23/18 20:07	1
Boron	4.4	U	100	4.4	ug/L		01/23/18 07:34	01/23/18 20:07	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 280-402195/1-A
Matrix: Water
Analysis Batch: 402719

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 402195

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	117	U	1000	117	ug/L		01/23/18 07:34	01/24/18 14:36	1

Lab Sample ID: LCS 280-402195/2-A
Matrix: Water
Analysis Batch: 402551

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 402195

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	500	540.7		ug/L		108	80 - 120
Arsenic	1000	1065		ug/L		107	80 - 120
Barium	2000	2303		ug/L		115	80 - 120
Cadmium	100	113.9		ug/L		114	80 - 120
Calcium	50000	52180		ug/L		104	80 - 120
Chromium	200	213.3		ug/L		107	80 - 120
Cobalt	500	528.4		ug/L		106	80 - 120
Copper	250	273.5		ug/L		109	80 - 120
Iron	1000	1037		ug/L		104	80 - 120
Magnesium	50000	53220		ug/L		106	80 - 120
Manganese	500	529.6		ug/L		106	80 - 120
Nickel	500	527.7		ug/L		106	80 - 120
Potassium	50000	57230		ug/L		114	80 - 120
Silver	50.0	51.39		ug/L		103	80 - 120
Vanadium	500	551.6		ug/L		110	80 - 120
Zinc	500	538.1		ug/L		108	80 - 120
Boron	1000	1051		ug/L		105	80 - 120

Lab Sample ID: LCS 280-402195/2-A
Matrix: Water
Analysis Batch: 402719

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 402195

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	50000	58390		ug/L		117	80 - 120

Lab Sample ID: MB 280-405467/1-A
Matrix: Water
Analysis Batch: 405739

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 405467

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	54.66	B	200	34.5	ug/L		02/20/18 16:42	02/21/18 14:51	1
Iron	22.94	B	100	22.0	ug/L		02/20/18 16:42	02/21/18 14:51	1
Magnesium	26.27	B	200	10.7	ug/L		02/20/18 16:42	02/21/18 14:51	1
Potassium	237	U	3000	237	ug/L		02/20/18 16:42	02/21/18 14:51	1
Sodium	364.5	B	1000	117	ug/L		02/20/18 16:42	02/21/18 14:51	1
Vanadium	1.1	U	10.0	1.1	ug/L		02/20/18 16:42	02/21/18 14:51	1
Boron	97.15	B	100	4.4	ug/L		02/20/18 16:42	02/21/18 14:51	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-405467/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 405739 — **Prep Batch: 405467**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	50000	52530		ug/L		105	80 - 120
Iron	1000	1021		ug/L		102	80 - 120
Magnesium	50000	50330		ug/L		101	80 - 120
Potassium	50000	52190		ug/L		104	80 - 120
Sodium	50000	53490		ug/L		107	80 - 120
Vanadium	500	517.5		ug/L		103	80 - 120
Boron	1000	1076		ug/L		108	80 - 120

Lab Sample ID: LCSD 280-405467/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 405739 — **Prep Batch: 405467**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	50000	53560		ug/L		107	80 - 120	2	20
Iron	1000	1040		ug/L		104	80 - 120	2	20
Magnesium	50000	50940		ug/L		102	80 - 120	1	20
Potassium	50000	53260		ug/L		107	80 - 120	2	20
Sodium	50000	54790		ug/L		110	80 - 120	2	20
Vanadium	500	526.2		ug/L		105	80 - 120	2	20
Boron	1000	1068		ug/L		107	80 - 120	1	20

Lab Sample ID: 280-105586-6 MS — **Client Sample ID: B3FV96**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 402551 — **Prep Batch: 402195**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	5.2	U	500	466.6		ug/L		93	75 - 125
Arsenic	4.4	U	1000	917.0		ug/L		92	75 - 125
Barium	41.5		2000	1986		ug/L		97	75 - 125
Cadmium	0.45	U	100	97.76		ug/L		98	75 - 125
Calcium	33600		50000	75370		ug/L		84	75 - 125
Chromium	7.1	B	200	188.9		ug/L		91	75 - 125
Cobalt	1.2	U	500	450.8		ug/L		90	75 - 125
Copper	4.2	U	250	231.5		ug/L		93	75 - 125
Iron	22.0	U	1000	894.6		ug/L		89	75 - 125
Magnesium	11300		50000	55740		ug/L		89	75 - 125
Manganese	1.2	B	500	451.8		ug/L		90	75 - 125
Nickel	2.6	U	500	452.8		ug/L		91	75 - 125
Potassium	4170		50000	52530		ug/L		97	75 - 125
Silver	0.93	U	50.0	44.02		ug/L		88	75 - 125
Vanadium	24.7		500	491.2		ug/L		93	75 - 125
Zinc	4.5	U	500	457.3		ug/L		91	75 - 125
Boron	14.4	B	1000	922.8		ug/L		91	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 280-105586-6 MS — **Client Sample ID: B3FV96**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 402719 — **Prep Batch: 402195**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sodium	26100		50000	74950		ug/L		98	75 - 125		

Lab Sample ID: 280-105586-6 MSD — **Client Sample ID: B3FV96**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 402551 — **Prep Batch: 402195**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	5.2	U	500	500.6		ug/L		100	75 - 125	7	20
Arsenic	4.4	U	1000	988.3		ug/L		99	75 - 125	7	20
Barium	41.5		2000	2149		ug/L		105	75 - 125	8	20
Cadmium	0.45	U	100	105.4		ug/L		105	75 - 125	7	20
Calcium	33600		50000	80260		ug/L		93	75 - 125	6	20
Chromium	7.1	B	200	201.5		ug/L		97	75 - 125	6	20
Cobalt	1.2	U	500	480.3		ug/L		96	75 - 125	6	20
Copper	4.2	U	250	252.0		ug/L		101	75 - 125	8	20
Iron	22.0	U	1000	969.6		ug/L		97	75 - 125	8	20
Magnesium	11300		50000	59190		ug/L		96	75 - 125	6	20
Manganese	1.2	B	500	488.0		ug/L		97	75 - 125	8	20
Nickel	2.6	U	500	483.4		ug/L		97	75 - 125	7	20
Potassium	4170		50000	56600		ug/L		105	75 - 125	7	20
Silver	0.93	U	50.0	47.08		ug/L		94	75 - 125	7	20
Vanadium	24.7		500	527.9		ug/L		101	75 - 125	7	20
Zinc	4.5	U	500	489.1		ug/L		98	75 - 125	7	20
Boron	14.4	B	1000	993.4		ug/L		98	75 - 125	7	20

Lab Sample ID: 280-105586-6 MSD — **Client Sample ID: B3FV96**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 402719 — **Prep Batch: 402195**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sodium	26100		50000	79800		ug/L		107	75 - 125	6	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 280-402194/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402890 — **Prep Batch: 402194**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9.2	U	50.0	9.2	ug/L		01/23/18 07:34	01/25/18 16:12	1
Antimony	0.40	U	2.0	0.40	ug/L		01/23/18 07:34	01/25/18 16:12	1
Arsenic	0.33	U	5.0	0.33	ug/L		01/23/18 07:34	01/25/18 16:12	1
Barium	0.29	U	1.0	0.29	ug/L		01/23/18 07:34	01/25/18 16:12	1
Beryllium	0.080	U	1.0	0.080	ug/L		01/23/18 07:34	01/25/18 16:12	1
Cadmium	0.27	U	1.0	0.27	ug/L		01/23/18 07:34	01/25/18 16:12	1
Chromium	0.50	U	2.0	0.50	ug/L		01/23/18 07:34	01/25/18 16:12	1
Cobalt	0.054	U	1.0	0.054	ug/L		01/23/18 07:34	01/25/18 16:12	1
Copper	0.56	U	2.0	0.56	ug/L		01/23/18 07:34	01/25/18 16:12	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-402194/1-A
Matrix: Water
Analysis Batch: 402890

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 402194

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.18	U	1.0	0.18	ug/L		01/23/18 07:34	01/25/18 16:12	1
Manganese	0.31	U	1.0	0.31	ug/L		01/23/18 07:34	01/25/18 16:12	1
Molybdenum	0.14	U	2.0	0.14	ug/L		01/23/18 07:34	01/25/18 16:12	1
Nickel	0.30	U	2.0	0.30	ug/L		01/23/18 07:34	01/25/18 16:12	1
Selenium	0.70	U	5.0	0.70	ug/L		01/23/18 07:34	01/25/18 16:12	1
Silver	0.033	U	5.0	0.033	ug/L		01/23/18 07:34	01/25/18 16:12	1
Strontium	0.30	U	10.0	0.30	ug/L		01/23/18 07:34	01/25/18 16:12	1
Thallium	0.050	U	1.0	0.050	ug/L		01/23/18 07:34	01/25/18 16:12	1
Thorium	1.2	U	5.0	1.2	ug/L		01/23/18 07:34	01/25/18 16:12	1
Tin	0.77	U	10.0	0.77	ug/L		01/23/18 07:34	01/25/18 16:12	1
Uranium	0.050	U	1.0	0.050	ug/L		01/23/18 07:34	01/25/18 16:12	1
Zinc	2.0	U	10.0	2.0	ug/L		01/23/18 07:34	01/25/18 16:12	1

Lab Sample ID: LCS 280-402194/2-A
Matrix: Water
Analysis Batch: 402890

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 402194

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	400	415.3		ug/L		104	80 - 120
Antimony	40.0	40.56		ug/L		101	80 - 120
Arsenic	40.0	38.56		ug/L		96	80 - 120
Barium	40.0	42.22		ug/L		106	80 - 120
Beryllium	40.0	37.68		ug/L		94	80 - 120
Cadmium	40.0	41.19		ug/L		103	80 - 120
Chromium	40.0	41.90		ug/L		105	80 - 120
Cobalt	40.0	41.79		ug/L		104	80 - 120
Copper	40.0	41.29		ug/L		103	80 - 120
Lead	40.0	42.23		ug/L		106	80 - 120
Manganese	40.0	40.95		ug/L		102	80 - 120
Molybdenum	40.0	41.74		ug/L		104	80 - 120
Nickel	40.0	42.31		ug/L		106	80 - 120
Selenium	40.0	40.68		ug/L		102	80 - 120
Silver	40.0	42.36		ug/L		106	80 - 120
Strontium	40.0	41.20		ug/L		103	80 - 120
Thallium	40.0	41.41		ug/L		104	80 - 120
Thorium	40.0	39.91		ug/L		100	80 - 120
Tin	40.0	41.35		ug/L		103	80 - 120
Uranium	40.0	41.05		ug/L		103	80 - 120
Zinc	40.0	41.30		ug/L		103	80 - 120

Lab Sample ID: 280-105586-9 MS
Matrix: Water
Analysis Batch: 402890

Client Sample ID: B3FXT5
Prep Type: Total/NA
Prep Batch: 402194

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9.2	U	400	409.8		ug/L		102	75 - 125
Antimony	0.40	U	40.0	43.47		ug/L		109	75 - 125
Arsenic	7.3		40.0	47.68		ug/L		101	75 - 125
Barium	21.1		40.0	64.73		ug/L		109	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-105586-9 MS — **Client Sample ID: B3FXT5**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402890 — **Prep Batch: 402194**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.080	U	40.0	40.73		ug/L		102	75 - 125
Cadmium	0.27	U	40.0	41.91		ug/L		105	75 - 125
Chromium	7.1		40.0	49.97		ug/L		107	75 - 125
Cobalt	0.13	B	40.0	42.94		ug/L		107	75 - 125
Copper	0.68	B	40.0	44.63		ug/L		110	75 - 125
Lead	0.18	U	40.0	43.69		ug/L		109	75 - 125
Manganese	1.2		40.0	44.48		ug/L		108	75 - 125
Molybdenum	2.7		40.0	44.79		ug/L		105	75 - 125
Nickel	3.9		40.0	47.20		ug/L		108	75 - 125
Selenium	1.2	B	40.0	44.28		ug/L		108	75 - 125
Silver	0.033	U	40.0	41.85		ug/L		105	75 - 125
Strontium	200		40.0	242.8	X	ug/L		107	75 - 125
Thallium	0.050	U	40.0	43.62		ug/L		109	75 - 125
Thorium	1.2	U	40.0	42.79		ug/L		107	75 - 125
Tin	0.77	U	40.0	42.18		ug/L		105	75 - 125
Uranium	3.1		40.0	46.87		ug/L		110	75 - 125
Zinc	2.0	U	40.0	42.48		ug/L		106	75 - 125

Lab Sample ID: 280-105586-9 MSD — **Client Sample ID: B3FXT5**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402890 — **Prep Batch: 402194**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	9.2	U	400	436.9		ug/L		109	75 - 125	6	20
Antimony	0.40	U	40.0	40.61		ug/L		102	75 - 125	7	20
Arsenic	7.3		40.0	48.01		ug/L		102	75 - 125	1	20
Barium	21.1		40.0	62.38		ug/L		103	75 - 125	4	20
Beryllium	0.080	U	40.0	43.11		ug/L		108	75 - 125	6	20
Cadmium	0.27	U	40.0	40.81		ug/L		102	75 - 125	3	20
Chromium	7.1		40.0	49.68		ug/L		106	75 - 125	1	20
Cobalt	0.13	B	40.0	41.77		ug/L		104	75 - 125	3	20
Copper	0.68	B	40.0	43.84		ug/L		108	75 - 125	2	20
Lead	0.18	U	40.0	43.93		ug/L		110	75 - 125	1	20
Manganese	1.2		40.0	44.76		ug/L		109	75 - 125	1	20
Molybdenum	2.7		40.0	43.34		ug/L		102	75 - 125	3	20
Nickel	3.9		40.0	46.47		ug/L		106	75 - 125	2	20
Selenium	1.2	B	40.0	42.12		ug/L		102	75 - 125	5	20
Silver	0.033	U	40.0	42.80		ug/L		107	75 - 125	2	20
Strontium	200		40.0	243.6	X	ug/L		109	75 - 125	0	20
Thallium	0.050	U	40.0	43.12		ug/L		108	75 - 125	1	20
Thorium	1.2	U	40.0	42.66		ug/L		107	75 - 125	0	20
Tin	0.77	U	40.0	41.95		ug/L		105	75 - 125	1	20
Uranium	3.1		40.0	46.51		ug/L		109	75 - 125	1	20
Zinc	2.0	U	40.0	44.07		ug/L		110	75 - 125	4	20

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-001

TestAmerica Job ID: 280-105586-1
SDG: DN0308

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-402198/1-A
Matrix: Water
Analysis Batch: 402890

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 402198

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9.2	U	50.0	9.2	ug/L		01/23/18 07:34	01/25/18 15:27	1
Antimony	0.40	U	2.0	0.40	ug/L		01/23/18 07:34	01/25/18 15:27	1
Arsenic	0.33	U	5.0	0.33	ug/L		01/23/18 07:34	01/25/18 15:27	1
Barium	0.29	U	1.0	0.29	ug/L		01/23/18 07:34	01/25/18 15:27	1
Beryllium	0.080	U	1.0	0.080	ug/L		01/23/18 07:34	01/25/18 15:27	1
Cadmium	0.27	U	1.0	0.27	ug/L		01/23/18 07:34	01/25/18 15:27	1
Chromium	0.50	U	2.0	0.50	ug/L		01/23/18 07:34	01/25/18 15:27	1
Cobalt	0.054	U	1.0	0.054	ug/L		01/23/18 07:34	01/25/18 15:27	1
Copper	0.56	U	2.0	0.56	ug/L		01/23/18 07:34	01/25/18 15:27	1
Lead	0.18	U	1.0	0.18	ug/L		01/23/18 07:34	01/25/18 15:27	1
Manganese	0.31	U	1.0	0.31	ug/L		01/23/18 07:34	01/25/18 15:27	1
Molybdenum	0.14	U	2.0	0.14	ug/L		01/23/18 07:34	01/25/18 15:27	1
Nickel	0.30	U	2.0	0.30	ug/L		01/23/18 07:34	01/25/18 15:27	1
Selenium	0.70	U	5.0	0.70	ug/L		01/23/18 07:34	01/25/18 15:27	1
Silver	0.033	U	5.0	0.033	ug/L		01/23/18 07:34	01/25/18 15:27	1
Strontium	0.30	U	10.0	0.30	ug/L		01/23/18 07:34	01/25/18 15:27	1
Thallium	0.050	U	1.0	0.050	ug/L		01/23/18 07:34	01/25/18 15:27	1
Thorium	1.2	U	5.0	1.2	ug/L		01/23/18 07:34	01/25/18 15:27	1
Tin	0.77	U	10.0	0.77	ug/L		01/23/18 07:34	01/25/18 15:27	1
Uranium	0.050	U	1.0	0.050	ug/L		01/23/18 07:34	01/25/18 15:27	1
Zinc	2.0	U	10.0	2.0	ug/L		01/23/18 07:34	01/25/18 15:27	1

Lab Sample ID: LCS 280-402198/2-A
Matrix: Water
Analysis Batch: 402890

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 402198

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	400	412.0		ug/L		103	80 - 120
Antimony	40.0	40.02		ug/L		100	80 - 120
Arsenic	40.0	40.91		ug/L		102	80 - 120
Barium	40.0	41.00		ug/L		102	80 - 120
Beryllium	40.0	40.16		ug/L		100	80 - 120
Cadmium	40.0	41.62		ug/L		104	80 - 120
Chromium	40.0	42.18		ug/L		105	80 - 120
Cobalt	40.0	41.98		ug/L		105	80 - 120
Copper	40.0	41.90		ug/L		105	80 - 120
Lead	40.0	41.72		ug/L		104	80 - 120
Manganese	40.0	42.52		ug/L		106	80 - 120
Molybdenum	40.0	41.25		ug/L		103	80 - 120
Nickel	40.0	41.72		ug/L		104	80 - 120
Selenium	40.0	40.35		ug/L		101	80 - 120
Silver	40.0	41.82		ug/L		105	80 - 120
Strontium	40.0	40.23		ug/L		101	80 - 120
Thallium	40.0	41.47		ug/L		104	80 - 120
Thorium	40.0	40.30		ug/L		101	80 - 120
Tin	40.0	42.08		ug/L		105	80 - 120
Uranium	40.0	40.79		ug/L		102	80 - 120
Zinc	40.0	41.35		ug/L		103	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-405465/1-A
Matrix: Water
Analysis Batch: 405618

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 405465

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.33	U	5.0	0.33	ug/L		02/20/18 16:42	02/21/18 00:19	1
Barium	0.29	U	1.0	0.29	ug/L		02/20/18 16:42	02/21/18 00:19	1
Beryllium	0.080	U	1.0	0.080	ug/L		02/20/18 16:42	02/21/18 00:19	1
Cadmium	0.27	U	1.0	0.27	ug/L		02/20/18 16:42	02/21/18 00:19	1
Chromium	0.50	U	2.0	0.50	ug/L		02/20/18 16:42	02/21/18 00:19	1
Cobalt	0.054	U	1.0	0.054	ug/L		02/20/18 16:42	02/21/18 00:19	1
Copper	0.56	U	2.0	0.56	ug/L		02/20/18 16:42	02/21/18 00:19	1
Lead	0.18	U	1.0	0.18	ug/L		02/20/18 16:42	02/21/18 00:19	1
Manganese	0.31	U	1.0	0.31	ug/L		02/20/18 16:42	02/21/18 00:19	1
Molybdenum	0.14	U	2.0	0.14	ug/L		02/20/18 16:42	02/21/18 00:19	1
Nickel	0.30	U	2.0	0.30	ug/L		02/20/18 16:42	02/21/18 00:19	1
Selenium	0.70	U	5.0	0.70	ug/L		02/20/18 16:42	02/21/18 00:19	1
Silver	0.033	U	5.0	0.033	ug/L		02/20/18 16:42	02/21/18 00:19	1
Thallium	0.050	U	1.0	0.050	ug/L		02/20/18 16:42	02/21/18 00:19	1
Thorium	1.2	U	5.0	1.2	ug/L		02/20/18 16:42	02/21/18 00:19	1
Tin	0.77	U	10.0	0.77	ug/L		02/20/18 16:42	02/21/18 00:19	1
Uranium	0.050	U	1.0	0.050	ug/L		02/20/18 16:42	02/21/18 00:19	1
Zinc	2.0	U	10.0	2.0	ug/L		02/20/18 16:42	02/21/18 00:19	1

Lab Sample ID: MB 280-405465/1-A
Matrix: Water
Analysis Batch: 405776

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 405465

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9.2	U	50.0	9.2	ug/L		02/20/18 16:42	02/21/18 18:03	1
Antimony	0.40	U	2.0	0.40	ug/L		02/20/18 16:42	02/21/18 18:03	1

Lab Sample ID: MB 280-405465/1-A
Matrix: Water
Analysis Batch: 405984

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 405465

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Strontium	0.30	U	10.0	0.30	ug/L		02/20/18 16:42	02/23/18 13:50	1

Lab Sample ID: LCS 280-405465/2-A
Matrix: Water
Analysis Batch: 405618

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 405465

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	40.0	38.04		ug/L		95	80 - 120
Barium	40.0	40.26		ug/L		101	80 - 120
Beryllium	40.0	40.02		ug/L		100	80 - 120
Cadmium	40.0	39.51		ug/L		99	80 - 120
Chromium	40.0	40.57		ug/L		101	80 - 120
Cobalt	40.0	40.86		ug/L		102	80 - 120
Copper	40.0	41.56		ug/L		104	80 - 120
Lead	40.0	40.13		ug/L		100	80 - 120
Manganese	40.0	39.31		ug/L		98	80 - 120
Molybdenum	40.0	41.05		ug/L		103	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 280-405465/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 405618 — **Prep Batch: 405465**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	40.0	40.79		ug/L		102	80 - 120
Selenium	40.0	40.58		ug/L		101	80 - 120
Silver	40.0	40.32		ug/L		101	80 - 120
Thallium	40.0	40.40		ug/L		101	80 - 120
Thorium	40.0	39.78		ug/L		99	80 - 120
Tin	40.0	42.12		ug/L		105	80 - 120
Uranium	40.0	39.66		ug/L		99	80 - 120
Zinc	40.0	40.74		ug/L		102	80 - 120

Lab Sample ID: LCS 280-405465/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 405776 — **Prep Batch: 405465**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	400	442.3		ug/L		111	80 - 120
Antimony	40.0	42.61		ug/L		107	80 - 120

Lab Sample ID: LCS 280-405465/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 405984 — **Prep Batch: 405465**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Strontium	40.0	45.25		ug/L		113	80 - 120

Lab Sample ID: LCSD 280-405465/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 405618 — **Prep Batch: 405465**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	40.0	41.44		ug/L		104	80 - 120	9	20
Barium	40.0	42.07		ug/L		105	80 - 120	4	20
Beryllium	40.0	41.56		ug/L		104	80 - 120	4	20
Cadmium	40.0	40.35		ug/L		101	80 - 120	2	20
Chromium	40.0	42.28		ug/L		106	80 - 120	4	20
Cobalt	40.0	41.45		ug/L		104	80 - 120	1	20
Copper	40.0	41.67		ug/L		104	80 - 120	0	20
Lead	40.0	42.44		ug/L		106	80 - 120	6	20
Manganese	40.0	41.52		ug/L		104	80 - 120	5	20
Molybdenum	40.0	42.48		ug/L		106	80 - 120	3	20
Nickel	40.0	42.11		ug/L		105	80 - 120	3	20
Selenium	40.0	42.09		ug/L		105	80 - 120	4	20
Silver	40.0	41.38		ug/L		103	80 - 120	3	20
Thallium	40.0	41.60		ug/L		104	80 - 120	3	20
Thorium	40.0	42.30		ug/L		106	80 - 120	6	20
Tin	40.0	42.84		ug/L		107	80 - 120	2	20
Uranium	40.0	42.14		ug/L		105	80 - 120	6	20
Zinc	40.0	46.19		ug/L		115	80 - 120	13	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 280-405465/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 405776 — **Prep Batch: 405465**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	400	452.2		ug/L		113	80 - 120	2	20
Antimony	40.0	45.18		ug/L		113	80 - 120	6	20

Lab Sample ID: LCSD 280-405465/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 405984 — **Prep Batch: 405465**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Strontium	40.0	47.14		ug/L		118	80 - 120	4	20

Lab Sample ID: 280-105586-13 MS — **Client Sample ID: B3FV72**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 402890 — **Prep Batch: 402198**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9.2	U	400	407.7		ug/L		102	75 - 125
Antimony	0.40	U	40.0	41.71		ug/L		104	75 - 125
Arsenic	8.7		40.0	49.99		ug/L		103	75 - 125
Barium	43.8		40.0	83.99		ug/L		101	75 - 125
Beryllium	0.080	U	40.0	44.51		ug/L		111	75 - 125
Cadmium	0.27	U	40.0	41.36		ug/L		103	75 - 125
Chromium	2.9		40.0	45.05		ug/L		105	75 - 125
Cobalt	0.085	B	40.0	42.66		ug/L		106	75 - 125
Copper	0.56	U	40.0	42.78		ug/L		107	75 - 125
Lead	0.18	U	40.0	43.96		ug/L		110	75 - 125
Manganese	0.51	B	40.0	43.97		ug/L		109	75 - 125
Molybdenum	4.1		40.0	47.54		ug/L		109	75 - 125
Nickel	2.9		40.0	45.37		ug/L		106	75 - 125
Selenium	1.9	B	40.0	44.91		ug/L		108	75 - 125
Silver	0.033	U	40.0	41.77		ug/L		104	75 - 125
Strontium	236		40.0	282.6	X	ug/L		117	75 - 125
Thallium	0.050	U	40.0	42.64		ug/L		107	75 - 125
Thorium	1.2	U	40.0	43.44		ug/L		109	75 - 125
Tin	0.77	U	40.0	41.80		ug/L		105	75 - 125
Uranium	2.6		40.0	46.80		ug/L		111	75 - 125
Zinc	2.0	U	40.0	44.35		ug/L		111	75 - 125

Lab Sample ID: 280-105586-13 MSD — **Client Sample ID: B3FV72**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 402890 — **Prep Batch: 402198**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	9.2	U	400	423.8		ug/L		106	75 - 125	4	20
Antimony	0.40	U	40.0	41.43		ug/L		104	75 - 125	1	20
Arsenic	8.7		40.0	49.39		ug/L		102	75 - 125	1	20
Barium	43.8		40.0	85.72		ug/L		105	75 - 125	2	20
Beryllium	0.080	U	40.0	42.07		ug/L		105	75 - 125	6	20
Cadmium	0.27	U	40.0	41.13		ug/L		103	75 - 125	1	20
Chromium	2.9		40.0	45.51		ug/L		107	75 - 125	1	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-105586-13 MSD — **Client Sample ID: B3FV72**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 402890 — **Prep Batch: 402198**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt	0.085	B	40.0	42.52		ug/L		106	75 - 125	0	20
Copper	0.56	U	40.0	42.46		ug/L		106	75 - 125	1	20
Lead	0.18	U	40.0	44.40		ug/L		111	75 - 125	1	20
Manganese	0.51	B	40.0	43.09		ug/L		106	75 - 125	2	20
Molybdenum	4.1		40.0	46.51		ug/L		106	75 - 125	2	20
Nickel	2.9		40.0	45.23		ug/L		106	75 - 125	0	20
Selenium	1.9	B	40.0	42.78		ug/L		102	75 - 125	5	20
Silver	0.033	U	40.0	40.96		ug/L		102	75 - 125	2	20
Strontium	236		40.0	290.5	X	ug/L		137	75 - 125	3	20
Thallium	0.050	U	40.0	43.53		ug/L		109	75 - 125	2	20
Thorium	1.2	U	40.0	42.52		ug/L		106	75 - 125	2	20
Tin	0.77	U	40.0	42.49		ug/L		106	75 - 125	2	20
Uranium	2.6		40.0	45.43		ug/L		107	75 - 125	3	20
Zinc	2.0	U	40.0	44.53		ug/L		111	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 280-402575/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402873 — **Prep Batch: 402575**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		01/25/18 11:29	01/25/18 16:26	1

Lab Sample ID: LCS 280-402575/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402873 — **Prep Batch: 402575**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.14		ug/L		103	80 - 120

Lab Sample ID: LCSD 280-402575/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402873 — **Prep Batch: 402575**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	5.00	4.96		ug/L		99	80 - 120	4	20

Lab Sample ID: MB 280-402579/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402873 — **Prep Batch: 402579**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		01/25/18 11:29	01/25/18 17:53	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 280-402579/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402873 — **Prep Batch: 402579**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.80		ug/L		96	80 - 120

Lab Sample ID: 280-105586-9 MS — **Client Sample ID: B3FXT5**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402873 — **Prep Batch: 402579**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.027	U	5.00	5.21		ug/L		104	75 - 125

Lab Sample ID: 280-105586-9 MSD — **Client Sample ID: B3FXT5**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402873 — **Prep Batch: 402579**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.027	U	5.00	5.12		ug/L		102	75 - 125	2	20

Lab Sample ID: 280-105586-13 MS — **Client Sample ID: B3FV72**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 402873 — **Prep Batch: 402575**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.027	U	5.00	4.98		ug/L		100	75 - 125

Lab Sample ID: 280-105586-13 MSD — **Client Sample ID: B3FV72**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 402873 — **Prep Batch: 402575**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.027	U	5.00	5.03		ug/L		101	75 - 125	1	20

Method: 9020B - Organic Halides, Total (TOX)

Lab Sample ID: MB 280-403383/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403383

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halogens - Dup	7.7	U	30.0	7.7	ug/L			01/30/18 10:38	1

Lab Sample ID: LCS 280-403383/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403383

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Halogens - Dup	100	97.26		ug/L		97	80 - 120

Method: 9020B - Organic Halides, Total (TOX) (Continued)

Lab Sample ID: 280-105586-30 MS — **Client Sample ID: B3FRR6**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403383

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Halogens - Dup	7.7	U	100	117.5		ug/L		118	75 - 125

Lab Sample ID: 280-105586-30 MSD — **Client Sample ID: B3FRR6**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403383

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Halogens - Dup	7.7	U	100	116.0		ug/L		116	75 - 125	1	20

Lab Sample ID: MB 280-403516/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halogens - Dup	7.7	U	30.0	7.7	ug/L			01/31/18 13:05	1

Lab Sample ID: LCS 280-403516/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Halogens - Dup	100	97.96		ug/L		98	80 - 120

Lab Sample ID: 280-105586-36 MS — **Client Sample ID: B3FVD7**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Halogens - Dup	7.7	U N	100	129.2	N	ug/L		129	75 - 125

Lab Sample ID: 280-105586-36 MSD — **Client Sample ID: B3FVD7**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403516

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Halogens - Dup	7.7	U N	100	120.9		ug/L		121	75 - 125	7	20

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-402745/35 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402745

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	194.2	B	1000	155	ug/L			01/24/18 22:18	1

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 280-402745/34 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402745

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Average	25000	25010		ug/L		100	80 - 120

Lab Sample ID: 280-105586-30 MS — **Client Sample ID: B3FRR6**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402745

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Average	520	B C	25000	25480		ug/L		100	75 - 125

Lab Sample ID: 280-105586-30 MSD — **Client Sample ID: B3FRR6**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402745

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Average	520	B C	25000	25600		ug/L		100	75 - 125	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-402461/29 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	2500	B	5000	1070	ug/L			01/22/18 16:21	1
Bicarbonate Alkalinity as CaCO3	1530	B	5000	1070	ug/L			01/22/18 16:21	1
Carbonate Alkalinity as CaCO3	1070	U	5000	1070	ug/L			01/22/18 16:21	1
Hydroxide Alkalinity as CaCO3	1070	U	5000	1070	ug/L			01/22/18 16:21	1

Lab Sample ID: MB 280-402461/5 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	3540	B	5000	1070	ug/L			01/22/18 13:37	1
Bicarbonate Alkalinity as CaCO3	1490	B	5000	1070	ug/L			01/22/18 13:37	1
Carbonate Alkalinity as CaCO3	2040	B	5000	1070	ug/L			01/22/18 13:37	1
Hydroxide Alkalinity as CaCO3	1070	U	5000	1070	ug/L			01/22/18 13:37	1

Lab Sample ID: LCS 280-402461/28 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 402461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity as CaCO3	200000	183200		ug/L		92	80 - 120

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-001

TestAmerica Job ID: 280-105586-1
SDG: DN0308

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 280-402461/4
Matrix: Water
Analysis Batch: 402461

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity as CaCO3			200000	185800		ug/L		93	80 - 120		

Lab Sample ID: 280-105586-8 DU
Matrix: Water
Analysis Batch: 402461

Client Sample ID: B3FXL9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity as CaCO3	93300			85890		ug/L				8	20

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-001

TestAmerica Job ID: 280-105586-1
SDG: DN0308

GC/MS Semi VOA

Prep Batch: 402273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-19	B3FXP0	Total/NA	Water	3520C	
280-105586-24	B3FXL4	Total/NA	Water	3520C	
280-105586-25	B3FYH4	Total/NA	Water	3520C	
MB 280-402273/1-A	Method Blank	Total/NA	Water	3520C	
LCS 280-402273/2-A	Lab Control Sample	Total/NA	Water	3520C	
280-105586-25 MS	B3FYH4	Total/NA	Water	3520C	
280-105586-25 MSD	B3FYH4	Total/NA	Water	3520C	

Analysis Batch: 403614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-19	B3FXP0	Total/NA	Water	8270D	402273
280-105586-24	B3FXL4	Total/NA	Water	8270D	402273
280-105586-25	B3FYH4	Total/NA	Water	8270D	402273
MB 280-402273/1-A	Method Blank	Total/NA	Water	8270D	402273
LCS 280-402273/2-A	Lab Control Sample	Total/NA	Water	8270D	402273
280-105586-25 MS	B3FYH4	Total/NA	Water	8270D	402273
280-105586-25 MSD	B3FYH4	Total/NA	Water	8270D	402273

GC Semi VOA

Prep Batch: 402202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-11	B3FXM0	Total/NA	Water	8151A	
280-105586-14	B3FXN9	Total/NA	Water	8151A	
280-105586-19	B3FXP0	Total/NA	Water	8151A	
280-105586-26	B3FXD2	Total/NA	Water	8151A	
280-105586-29	B3FXD3	Total/NA	Water	8151A	
MB 280-402202/1-A	Method Blank	Total/NA	Water	8151A	
LCS 280-402202/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 280-402202/10-A	Lab Control Sample Dup	Total/NA	Water	8151A	
280-105586-26 MS	B3FXD2	Total/NA	Water	8151A	
280-105586-26 MSD	B3FXD2	Total/NA	Water	8151A	

Prep Batch: 402237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-11	B3FXM0	Total/NA	Water	3510C	
280-105586-15	B3FXM4	Total/NA	Water	3510C	
280-105586-16	B3FXM3	Total/NA	Water	3510C	
280-105586-26	B3FXD2	Total/NA	Water	3510C	
280-105586-29	B3FXD3	Total/NA	Water	3510C	
MB 280-402237/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-402237/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 280-402237/3-A	Lab Control Sample	Total/NA	Water	3510C	
280-105586-26 MS	B3FXD2	Total/NA	Water	3510C	
280-105586-26 MS	B3FXD2	Total/NA	Water	3510C	
280-105586-26 MSD	B3FXD2	Total/NA	Water	3510C	
280-105586-26 MSD	B3FXD2	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Analysis Batch: 403514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-26	B3FXD2	Total/NA	Water	8082A	402237
280-105586-29	B3FXD3	Total/NA	Water	8082A	402237
MB 280-402237/1-A	Method Blank	Total/NA	Water	8082A	402237
LCS 280-402237/3-A	Lab Control Sample	Total/NA	Water	8082A	402237
280-105586-26 MS	B3FXD2	Total/NA	Water	8082A	402237
280-105586-26 MSD	B3FXD2	Total/NA	Water	8082A	402237

Analysis Batch: 403721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-11	B3FXM0	Total/NA	Water	8081B	402237
280-105586-15	B3FXM4	Total/NA	Water	8081B	402237
280-105586-16	B3FXM3	Total/NA	Water	8081B	402237
280-105586-26	B3FXD2	Total/NA	Water	8081B	402237
280-105586-29	B3FXD3	Total/NA	Water	8081B	402237
MB 280-402237/1-A	Method Blank	Total/NA	Water	8081B	402237
LCS 280-402237/2-A	Lab Control Sample	Total/NA	Water	8081B	402237
280-105586-26 MS	B3FXD2	Total/NA	Water	8081B	402237
280-105586-26 MSD	B3FXD2	Total/NA	Water	8081B	402237

Analysis Batch: 404929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-11	B3FXM0	Total/NA	Water	8151A	402202
280-105586-14	B3FXN9	Total/NA	Water	8151A	402202
280-105586-19	B3FXP0	Total/NA	Water	8151A	402202
280-105586-26	B3FXD2	Total/NA	Water	8151A	402202
280-105586-29	B3FXD3	Total/NA	Water	8151A	402202
MB 280-402202/1-A	Method Blank	Total/NA	Water	8151A	402202
LCS 280-402202/2-A	Lab Control Sample	Total/NA	Water	8151A	402202
LCSD 280-402202/10-A	Lab Control Sample Dup	Total/NA	Water	8151A	402202
280-105586-26 MS	B3FXD2	Total/NA	Water	8151A	402202
280-105586-26 MSD	B3FXD2	Total/NA	Water	8151A	402202

Metals

Prep Batch: 402193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-1	B3FRN5	Total/NA	Water	3010A	
280-105586-4	B3FVC0	Total/NA	Water	3010A	
280-105586-5	B3FV92	Total/NA	Water	3010A	
280-105586-9	B3FXT5	Total/NA	Water	3010A	
280-105586-11	B3FXM0	Total/NA	Water	3010A	
280-105586-18	B3FYF7	Total/NA	Water	3010A	
280-105586-19	B3FXP0	Total/NA	Water	3010A	
280-105586-22	B3FYH3	Total/NA	Water	3010A	
280-105586-28	B3FV55	Total/NA	Water	3010A	
MB 280-402193/1-A	Method Blank	Total/NA	Water	3010A	
LCS 280-402193/2-A	Lab Control Sample	Total/NA	Water	3010A	
280-105586-5 MS	B3FV92	Total/NA	Water	3010A	
280-105586-5 MSD	B3FV92	Total/NA	Water	3010A	

Metals (Continued)

Prep Batch: 402194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-9	B3FXT5	Total/NA	Water	3020A	
280-105586-11	B3FXM0	Total/NA	Water	3020A	
280-105586-18	B3FYF7	Total/NA	Water	3020A	
280-105586-19	B3FXP0	Total/NA	Water	3020A	
280-105586-22	B3FYH3	Total/NA	Water	3020A	
280-105586-28	B3FV55	Total/NA	Water	3020A	
MB 280-402194/1-A	Method Blank	Total/NA	Water	3020A	
LCS 280-402194/2-A	Lab Control Sample	Total/NA	Water	3020A	
280-105586-9 MS	B3FXT5	Total/NA	Water	3020A	
280-105586-9 MSD	B3FXT5	Total/NA	Water	3020A	

Prep Batch: 402195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-2	B3FRN7	Dissolved	Water	3005A	
280-105586-3	B3FVC2	Dissolved	Water	3005A	
280-105586-6	B3FV96	Dissolved	Water	3005A	
280-105586-10	B3FTH2	Dissolved	Water	3005A	
280-105586-13	B3FV72	Dissolved	Water	3005A	
280-105586-17	B3FR99	Dissolved	Water	3005A	
280-105586-20	B3FTF6	Dissolved	Water	3005A	
280-105586-27	B3FV61	Dissolved	Water	3005A	
MB 280-402195/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-402195/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-105586-6 MS	B3FV96	Dissolved	Water	3005A	
280-105586-6 MSD	B3FV96	Dissolved	Water	3005A	

Prep Batch: 402198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-10	B3FTH2	Dissolved	Water	3005A	
280-105586-13	B3FV72	Dissolved	Water	3005A	
280-105586-17	B3FR99	Dissolved	Water	3005A	
280-105586-20	B3FTF6	Dissolved	Water	3005A	
280-105586-27	B3FV61	Dissolved	Water	3005A	
MB 280-402198/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-402198/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-105586-13 MS	B3FV72	Dissolved	Water	3005A	
280-105586-13 MSD	B3FV72	Dissolved	Water	3005A	

Analysis Batch: 402551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-1	B3FRN5	Total/NA	Water	6010D	402193
280-105586-2	B3FRN7	Dissolved	Water	6010D	402195
280-105586-3	B3FVC2	Dissolved	Water	6010D	402195
280-105586-4	B3FVC0	Total/NA	Water	6010D	402193
280-105586-5	B3FV92	Total/NA	Water	6010D	402193
280-105586-6	B3FV96	Dissolved	Water	6010D	402195
280-105586-9	B3FXT5	Total/NA	Water	6010D	402193
280-105586-10	B3FTH2	Dissolved	Water	6010D	402195
280-105586-11	B3FXM0	Total/NA	Water	6010D	402193
280-105586-13	B3FV72	Dissolved	Water	6010D	402195
280-105586-17	B3FR99	Dissolved	Water	6010D	402195

Metals (Continued)

Analysis Batch: 402551 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-18	B3FYF7	Total/NA	Water	6010D	402193
280-105586-19	B3FXP0	Total/NA	Water	6010D	402193
280-105586-20	B3FTF6	Dissolved	Water	6010D	402195
280-105586-22	B3FYH3	Total/NA	Water	6010D	402193
280-105586-27	B3FV61	Dissolved	Water	6010D	402195
280-105586-28	B3FV55	Total/NA	Water	6010D	402193
MB 280-402193/1-A	Method Blank	Total/NA	Water	6010D	402193
MB 280-402195/1-A	Method Blank	Total Recoverable	Water	6010D	402195
LCS 280-402193/2-A	Lab Control Sample	Total/NA	Water	6010D	402193
LCS 280-402195/2-A	Lab Control Sample	Total Recoverable	Water	6010D	402195
280-105586-5 MS	B3FV92	Total/NA	Water	6010D	402193
280-105586-5 MSD	B3FV92	Total/NA	Water	6010D	402193
280-105586-6 MS	B3FV96	Dissolved	Water	6010D	402195
280-105586-6 MSD	B3FV96	Dissolved	Water	6010D	402195

Prep Batch: 402575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-10	B3FTH2	Dissolved	Water	7470A	
280-105586-13	B3FV72	Dissolved	Water	7470A	
280-105586-27	B3FV61	Dissolved	Water	7470A	
MB 280-402575/1-A	Method Blank	Total/NA	Water	7470A	
LCS 280-402575/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 280-402575/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	
280-105586-13 MS	B3FV72	Dissolved	Water	7470A	
280-105586-13 MSD	B3FV72	Dissolved	Water	7470A	

Prep Batch: 402579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-9	B3FXT5	Total/NA	Water	7470A	
280-105586-11	B3FXM0	Total/NA	Water	7470A	
280-105586-19	B3FXP0	Total/NA	Water	7470A	
280-105586-22	B3FYH3	Total/NA	Water	7470A	
280-105586-23	B3FTX6	Dissolved	Water	7470A	
280-105586-28	B3FV55	Total/NA	Water	7470A	
MB 280-402579/1-A	Method Blank	Total/NA	Water	7470A	
LCS 280-402579/2-A	Lab Control Sample	Total/NA	Water	7470A	
280-105586-9 MS	B3FXT5	Total/NA	Water	7470A	
280-105586-9 MSD	B3FXT5	Total/NA	Water	7470A	

Analysis Batch: 402719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-1	B3FRN5	Total/NA	Water	6010D	402193
280-105586-2	B3FRN7	Dissolved	Water	6010D	402195
280-105586-3	B3FVC2	Dissolved	Water	6010D	402195
280-105586-4	B3FVC0	Total/NA	Water	6010D	402193
280-105586-5	B3FV92	Total/NA	Water	6010D	402193
280-105586-6	B3FV96	Dissolved	Water	6010D	402195
280-105586-9	B3FXT5	Total/NA	Water	6010D	402193
280-105586-10	B3FTH2	Dissolved	Water	6010D	402195
280-105586-11	B3FXM0	Total/NA	Water	6010D	402193
280-105586-13	B3FV72	Dissolved	Water	6010D	402195

Metals (Continued)

Analysis Batch: 402719 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-17	B3FR99	Dissolved	Water	6010D	402195
280-105586-18	B3FYF7	Total/NA	Water	6010D	402193
280-105586-19	B3FXP0	Total/NA	Water	6010D	402193
280-105586-20	B3FTF6	Dissolved	Water	6010D	402195
280-105586-22	B3FYH3	Total/NA	Water	6010D	402193
280-105586-27	B3FV61	Dissolved	Water	6010D	402195
280-105586-28	B3FV55	Total/NA	Water	6010D	402193
MB 280-402193/1-A	Method Blank	Total/NA	Water	6010D	402193
MB 280-402195/1-A	Method Blank	Total Recoverable	Water	6010D	402195
LCS 280-402193/2-A	Lab Control Sample	Total/NA	Water	6010D	402193
LCS 280-402195/2-A	Lab Control Sample	Total Recoverable	Water	6010D	402195
280-105586-5 MS	B3FV92	Total/NA	Water	6010D	402193
280-105586-5 MSD	B3FV92	Total/NA	Water	6010D	402193
280-105586-6 MS	B3FV96	Dissolved	Water	6010D	402195
280-105586-6 MSD	B3FV96	Dissolved	Water	6010D	402195

Analysis Batch: 402873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-9	B3FXT5	Total/NA	Water	7470A	402579
280-105586-10	B3FTH2	Dissolved	Water	7470A	402575
280-105586-11	B3FXM0	Total/NA	Water	7470A	402579
280-105586-13	B3FV72	Dissolved	Water	7470A	402575
280-105586-19	B3FXP0	Total/NA	Water	7470A	402579
280-105586-22	B3FYH3	Total/NA	Water	7470A	402579
280-105586-23	B3FTX6	Dissolved	Water	7470A	402579
280-105586-27	B3FV61	Dissolved	Water	7470A	402575
280-105586-28	B3FV55	Total/NA	Water	7470A	402579
MB 280-402575/1-A	Method Blank	Total/NA	Water	7470A	402575
MB 280-402579/1-A	Method Blank	Total/NA	Water	7470A	402579
LCS 280-402575/2-A	Lab Control Sample	Total/NA	Water	7470A	402575
LCS 280-402579/2-A	Lab Control Sample	Total/NA	Water	7470A	402579
LCSD 280-402575/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	402575
280-105586-9 MS	B3FXT5	Total/NA	Water	7470A	402579
280-105586-9 MSD	B3FXT5	Total/NA	Water	7470A	402579
280-105586-13 MS	B3FV72	Dissolved	Water	7470A	402575
280-105586-13 MSD	B3FV72	Dissolved	Water	7470A	402575

Analysis Batch: 402890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-9	B3FXT5	Total/NA	Water	6020B	402194
280-105586-10	B3FTH2	Dissolved	Water	6020B	402198
280-105586-11	B3FXM0	Total/NA	Water	6020B	402194
280-105586-13	B3FV72	Dissolved	Water	6020B	402198
280-105586-17	B3FR99	Dissolved	Water	6020B	402198
280-105586-18	B3FYF7	Total/NA	Water	6020B	402194
280-105586-19	B3FXP0	Total/NA	Water	6020B	402194
280-105586-20	B3FTF6	Dissolved	Water	6020B	402198
280-105586-22	B3FYH3	Total/NA	Water	6020B	402194
280-105586-27	B3FV61	Dissolved	Water	6020B	402198
280-105586-28	B3FV55	Total/NA	Water	6020B	402194
MB 280-402194/1-A	Method Blank	Total/NA	Water	6020B	402194

Metals (Continued)

Analysis Batch: 402890 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-402198/1-A	Method Blank	Total Recoverable	Water	6020B	402198
LCS 280-402194/2-A	Lab Control Sample	Total/NA	Water	6020B	402194
LCS 280-402198/2-A	Lab Control Sample	Total Recoverable	Water	6020B	402198
280-105586-9 MS	B3FXT5	Total/NA	Water	6020B	402194
280-105586-9 MSD	B3FXT5	Total/NA	Water	6020B	402194
280-105586-13 MS	B3FV72	Dissolved	Water	6020B	402198
280-105586-13 MSD	B3FV72	Dissolved	Water	6020B	402198

Prep Batch: 405465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-23	B3FTX6	Dissolved	Water	3005A	
MB 280-405465/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-405465/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 280-405465/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Prep Batch: 405467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-23	B3FTX6	Dissolved	Water	3005A	
MB 280-405467/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-405467/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 280-405467/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Analysis Batch: 405618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-23	B3FTX6	Dissolved	Water	6020B	405465
MB 280-405465/1-A	Method Blank	Total Recoverable	Water	6020B	405465
LCS 280-405465/2-A	Lab Control Sample	Total Recoverable	Water	6020B	405465
LCSD 280-405465/3-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	405465

Analysis Batch: 405739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-23	B3FTX6	Dissolved	Water	6010D	405467
MB 280-405467/1-A	Method Blank	Total Recoverable	Water	6010D	405467
LCS 280-405467/2-A	Lab Control Sample	Total Recoverable	Water	6010D	405467
LCSD 280-405467/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010D	405467

Analysis Batch: 405776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-23	B3FTX6	Dissolved	Water	6020B	405465
MB 280-405465/1-A	Method Blank	Total Recoverable	Water	6020B	405465
LCS 280-405465/2-A	Lab Control Sample	Total Recoverable	Water	6020B	405465
LCSD 280-405465/3-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	405465

Analysis Batch: 405984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-23	B3FTX6	Dissolved	Water	6020B	405465
MB 280-405465/1-A	Method Blank	Total Recoverable	Water	6020B	405465
LCS 280-405465/2-A	Lab Control Sample	Total Recoverable	Water	6020B	405465
LCSD 280-405465/3-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	405465

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-001

TestAmerica Job ID: 280-105586-1
SDG: DN0308

General Chemistry

Analysis Batch: 402461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-1	B3FRN5	Total/NA	Water	SM 2320B	
280-105586-4	B3FVC0	Total/NA	Water	SM 2320B	
280-105586-7	B3FY47	Total/NA	Water	SM 2320B	
280-105586-8	B3FXL9	Total/NA	Water	SM 2320B	
280-105586-21	B3FYF9	Total/NA	Water	SM 2320B	
280-105586-22	B3FYH3	Total/NA	Water	SM 2320B	
280-105586-24	B3FXL4	Total/NA	Water	SM 2320B	
280-105586-28	B3FV55	Total/NA	Water	SM 2320B	
MB 280-402461/29	Method Blank	Total/NA	Water	SM 2320B	
MB 280-402461/5	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-402461/28	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 280-402461/4	Lab Control Sample	Total/NA	Water	SM 2320B	
280-105586-8 DU	B3FXL9	Total/NA	Water	SM 2320B	

Analysis Batch: 402745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-30	B3FRR6	Total/NA	Water	9060A	
280-105586-31	B3FV57	Total/NA	Water	9060A	
280-105586-32	B3FRR4	Total/NA	Water	9060A	
280-105586-33	B3FRR5	Total/NA	Water	9060A	
280-105586-34	B3FR38	Total/NA	Water	9060A	
280-105586-35	B3FVD6	Total/NA	Water	9060A	
280-105586-36	B3FVD7	Total/NA	Water	9060A	
280-105586-37	B3FVD8	Total/NA	Water	9060A	
MB 280-402745/35	Method Blank	Total/NA	Water	9060A	
LCS 280-402745/34	Lab Control Sample	Total/NA	Water	9060A	
280-105586-30 MS	B3FRR6	Total/NA	Water	9060A	
280-105586-30 MSD	B3FRR6	Total/NA	Water	9060A	

Analysis Batch: 403383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-30	B3FRR6	Total/NA	Water	9020B	
280-105586-31	B3FV57	Total/NA	Water	9020B	
280-105586-32	B3FRR4	Total/NA	Water	9020B	
280-105586-33	B3FRR5	Total/NA	Water	9020B	
280-105586-34	B3FR38	Total/NA	Water	9020B	
280-105586-35	B3FVD6	Total/NA	Water	9020B	
MB 280-403383/2	Method Blank	Total/NA	Water	9020B	
LCS 280-403383/4	Lab Control Sample	Total/NA	Water	9020B	
280-105586-30 MS	B3FRR6	Total/NA	Water	9020B	
280-105586-30 MSD	B3FRR6	Total/NA	Water	9020B	

Analysis Batch: 403516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105586-36	B3FVD7	Total/NA	Water	9020B	
280-105586-37	B3FVD8	Total/NA	Water	9020B	
MB 280-403516/2	Method Blank	Total/NA	Water	9020B	
LCS 280-403516/6	Lab Control Sample	Total/NA	Water	9020B	
280-105586-36 MS	B3FVD7	Total/NA	Water	9020B	
280-105586-36 MSD	B3FVD7	Total/NA	Water	9020B	

Surrogate Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-001

TestAmerica Job ID: 280-105586-1
SDG: DN0308

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(42-131)	(48-120)	(41-120)	(42-120)	(45-124)	(20-130)
280-105586-19	B3FXP0	82	82	83	79	85	87
280-105586-24	B3FXL4	75	80	78	77	76	43
280-105586-25	B3FYH4	82	81	83	79	85	87
280-105586-25 MS	B3FYH4	89	80	83	81	83	79
280-105586-25 MSD	B3FYH4	91	83	82	82	82	80
LCS 280-402273/2-A	Lab Control Sample	91	81	81	81	76	79
MB 280-402273/1-A	Method Blank	75	77	81	78	80	84

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP1	TCX1	TCX1
Lab Sample ID	Client Sample ID	(34-122)	(34-122)	(28-115)	(28-115)
280-105586-11	B3FXM0	96	96	100	100
280-105586-15	B3FXM4	98	98	88	88
280-105586-16	B3FXM3	101	101	104	104
280-105586-26	B3FXD2	102	102	92	92
280-105586-26 MS	B3FXD2	99	99	97	97
280-105586-26 MSD	B3FXD2	99	99	101	101
280-105586-29	B3FXD3	104	104	102	102
LCS 280-402237/2-A	Lab Control Sample	98	98	95	95
MB 280-402237/1-A	Method Blank	99	99	95	95

Surrogate Legend

DCBP = Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(30-136)	(25-120)
280-105586-26	B3FXD2	103	92
280-105586-26 MS	B3FXD2	102	90
280-105586-26 MSD	B3FXD2	103	94
280-105586-29	B3FXD3	103	90
LCS 280-402237/3-A	Lab Control Sample	94	89
MB 280-402237/1-A	Method Blank	96	90

Surrogate Legend

Surrogate Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-001

TestAmerica Job ID: 280-105586-1
SDG: DN0308

DCBP = Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**DCPAA1 (39-135)**							
280-105586-11	B3FXM0	83							
280-105586-14	B3FXN9	79							
280-105586-19	B3FXP0	73							
280-105586-26	B3FXD2	75							
280-105586-26 MS	B3FXD2	80							
280-105586-26 MSD	B3FXD2	82							
280-105586-29	B3FXD3	0.1 X							
LCS 280-402202/2-A	Lab Control Sample	60							
LCSD 280-402202/10-A	Lab Control Sample Dup	88							
MB 280-402202/1-A	Method Blank	80							

Surrogate Legend

DCPAA = DCAA